

McLeod Pavilion

Protocol: adult\_upperExtremities\_MSK WRIST

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Prone	Pulse Sequence	Spin Echo
Coil Configuration	GEM Flex Small Array	Imaging Options	NPW, Seq, EDR, Fast, SS
Plane	3-PLANE	<b>SCAN RANGE</b>	
Series Description	3 Plane Localizer	FOV	36.0
<b>SCAN TIMING</b>		Slice Thickness	5.0
TE	71.2	Slice Spacing	5.0
Number of Echoes	1	<b>ACQ TIMING</b>	
TR	Minimum	Freq	384
Receiver Bandwidth	62.50	Phase	224
<b>IMAGE ENHANCE</b>		Freq DIR	Unswap
Filter Choice	None	# of Acq. Before Pause	0
<b>GATING/TRIGGER</b>		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
<b>FMRI</b>		Phase Correction	No
PSD Trigger	Internal	<b>USER CVS</b>	
View Order	Bottom/Up	User CV2	240.00
# of Repetitions REST	0	User CV13	1.00
# of Repetitions ACTIVE	0	<b>MULTI-PHASE</b>	
<b>SAT</b>		Seperate Series	0
Tag Type	None	Mask Phase	0
<b>TRICKS</b>		Mask Pause	0
Pause On/Off	On	<b>DIFFUSION</b>	
Auto Subtract	0	Recon All Images	On
Auto SCIC	Off	<b>CONTRAST</b>	
		Contrast Yes/No	No

3 Plane Localizer

3 Plane Localizer

McLeod Pavilion

Protocol: adult\_upperExtremities\_MSK WRIST

3 Plane Localizer Small FOV	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Prone	Pulse Sequence	Spin Echo
	Coil Configuration	GEM Flex Small Array	Imaging Options	Seq, EDR, Fast, SS
	Plane	3-PLANE	<b>SCAN RANGE</b>	
	Series Description	3 Plane Localizer Small FOV	FOV	22.0
	<b>SCAN TIMING</b>		Slice Thickness	5.0
	TE	85.0	Slice Spacing	5.0
	Number of Echoes	1	<b>ACQ TIMING</b>	
	TR	Minimum	Freq	384
	Receiver Bandwidth	62.50	Phase	256
	<b>IMAGE ENHANCE</b>		Freq DIR	Unswap
	Filter Choice	None	# of Acq. Before Pause	0
	<b>GATING/TRIGGER</b>		Phase FOV	1.00
	Auto Trigger Type	Off	Auto Shim	Auto
	<b>FMRI</b>		Phase Correction	No
	PSD Trigger	Internal	<b>USER CVS</b>	
	Slice Order	Interleaved	User CV2	240.00
	View Order	Bottom/Up	User CV13	1.00
	# of Repetitions REST	0	<b>MULTI-PHASE</b>	
	# of Repetitions ACTIVE	0	Seperate Series	0
	<b>SAT</b>		Mask Phase	0
	Tag Type	None	Mask Pause	0
	<b>TRICKS</b>		<b>DIFFUSION</b>	
	Pause On/Off	On	Recon All Images	On
	Auto Subtract	0	<b>CONTRAST</b>	
	Auto SCIC	Off	Contrast Yes/No	No

3 Plane Localizer Small FOV

McLeod Pavilion

Protocol: adult\_upperExtremities\_MSK WRIST

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Prone	Pulse Sequence	SPGR
Coil Configuration	GEM Flex Small Array	Imaging Options	EDR, Fast, ZIP2, Calib
Plane	AXIAL	<b>SCAN RANGE</b>	
Series Description	Calibration	FOV	30.0
<b>SCAN TIMING</b>		Slice Thickness	10.0
Number of Echoes	1	<b>ACQ TIMING</b>	
<b>IMAGE ENHANCE</b>		Freq DIR	R/L
Filter Choice	None	Auto Shim	Auto
<b>GATING/TRIGGER</b>		Phase Correction	No
Auto Trigger Type	Off	<b>FMRI</b>	
<b>MULTI-PHASE</b>		PSD Trigger	Internal
Seperate Series	0	Slice Order	Interleaved
Mask Phase	0	View Order	Bottom/Up
Mask Pause	0	# of Repetitions REST	0
<b>DIFFUSION</b>		# of Repetitions ACTIVE	0
Recon All Images	On	<b>SAT</b>	
<b>CONTRAST</b>		Tag Type	None
Contrast Yes/No	No	<b>TRICKS</b>	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	Off

Calibration

Calibration

Protocol: adult\_upperExtremities\_MSK WRIST

Ax T1 FSE	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		Ax T1 FSE
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Prone	Pulse Sequence	FSE-XL	
	Coil Configuration	GEM Flex Small Array	Imaging Options	FC, EDR, TRF, Fast	
	Plane	OBLIQUE	<b>SCAN RANGE</b>		
	Series Description	Ax T1 FSE	FOV	12.0	
	<b>SCAN TIMING</b>		Slice Thickness	2.5	
	Flip Angle	111	Slice Spacing	0.5	
	TE	Min Full	<b>ACQ TIMING</b>		
	Number of Echoes	1	Freq	352	
	TR	730.0	Phase	224	
	Echo Train Length	3	Freq DIR	R/L	
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (L)	
	<b>IMAGE ENHANCE</b>		NEX	2.00	
	Filter Choice	A	# of Acq. Before Pause	0	
	<b>GATING/TRIGGER</b>		Phase FOV	0.80	
	Auto Trigger Type	Off	Auto Shim	Auto	
	<b>FMRI</b>		Phase Correction	Yes	
	PSD Trigger	Internal	Flow Direction Compensation	Slice	
	View Order	Bottom/Up	<b>USER CVS</b>		
	# of Repetitions REST	0	User CV8	1.00	
	# of Repetitions ACTIVE	0	User CV22	1.00	
	<b>SAT</b>		TR Min	400.0	
	Tag Type	None	TR Max	850.0	
	<b>TRICKS</b>		<b>MULTI-PHASE</b>		
Pause On/Off	On	Seperate Series	0		
Auto Subtract	0	Mask Phase	0		
Auto SCIC	2	Mask Pause	0		
		<b>DIFFUSION</b>			
		Recon All Images	On		
		<b>CONTRAST</b>			
		Contrast Yes/No	No		

McLeod Pavilion

Protocol: adult\_upperExtremities\_MSK WRIST

AX STIR	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		AX STIR
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Prone	Pulse Sequence	FSE-XL	
	Coil Configuration	GEM Flex Small Array	Imaging Options	Seq, EDR, TRF, Fast, IrP	
	Plane	OBLIQUE	PSD Name	fse-xl	
	Series Description	AX STIR	<b>SCAN RANGE</b>		
	<b>SCAN TIMING</b>		FOV	12.0	
	Flip Angle	111	Slice Thickness	2.5	
	TE	50.0	Slice Spacing	0.5	
	Number of Echoes	1	<b>ACQ TIMING</b>		
	TR	4422.0	Freq	320	
	TI	170	Phase	224	
	Echo Train Length	11	Freq DIR	S/I	
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (I)	
	<b>IMAGE ENHANCE</b>		NEX	2.00	
	Filter Choice	None	Phase FOV	1.00	
	<b>GATING/TRIGGER</b>		Auto Shim	Auto	
	Auto Trigger Type	Off	Phase Correction	Yes	
	<b>FMRI</b>		<b>USER CVS</b>		
	PSD Trigger	Internal	User CV7	1.00	
	View Order	Bottom/Up	User CV8	1.00	
	# of Repetitions REST	0	User CV22	1.00	
	# of Repetitions ACTIVE	0	TR Min	2000.0	
	<b>SAT</b>		TR Max	15000.0	
	SAT Location	S	<b>MULTI-PHASE</b>		
SAT Location	I	Seperate Series	0		
Tag Type	None	Mask Phase	0		
<b>TRICKS</b>		Mask Pause	0		
Pause On/Off	On	<b>DIFFUSION</b>			
Auto Subtract	0	Recon All Images	On		
Auto SCIC	Off	<b>CONTRAST</b>			
		Contrast Yes/No	No		

McLeod Pavilion

Protocol: adult\_upperExtremities\_MSK WRIST

COR 3D MERGE	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		COR 3D MERGE
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Prone	Pulse Sequence	MERGE	
	Coil Configuration	GEM Flex Small Array	Imaging Options	FC, EDR, Fast, ZIP512, ZIP2	
	Plane	OBLIQUE	<b>SCAN RANGE</b>		
	Series Description	COR 3D MERGE	FOV	10.0	
	<b>SCAN TIMING</b>		Slice Thickness	2.0	
	Flip Angle	5	Location per Slab	24	
	TE	Min Full	Overlap Locations	0	
	Number of Echoes	3	<b>ACQ TIMING</b>		
	TR	Minimum	Freq	256	
	Receiver Bandwidth	41.67	Phase	256	
	<b>IMAGE ENHANCE</b>		Freq DIR	S/I	
	Filter Choice	A	Phase FOV	1.00	
	<b>GATING/TRIGGER</b>		Auto Shim	Auto	
	Auto Trigger Type	Off	Phase Correction	No	
	<b>MULTI-PHASE</b>		<b>FMRI</b>		
	Seperate Series	0	PSD Trigger	Internal	
	Mask Phase	0	View Order	Bottom/Up	
	Mask Pause	0	# of Repetitions REST	0	
<b>DIFFUSION</b>		# of Repetitions ACTIVE	0		
Recon All Images	On	<b>SAT</b>			
<b>CONTRAST</b>		Tag Type	None		
Contrast Yes/No	No	<b>TRICKS</b>			
		Pause On/Off	On		
		Auto Subtract	0		
		Auto SCIC	2		

McLeod Pavilion

Protocol: adult\_upperExtremities\_MSK WRIST

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Prone	Pulse Sequence	FSE-XL
Coil Configuration	GEM Flex Small Array	Imaging Options	EDR, TRF, Fast, FR
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	COR PD F/S	FOV	12.0
<b>SCAN TIMING</b>		Slice Thickness	2.5
Flip Angle	111	Slice Spacing	0.5
TE	30.0	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	320
TR	1800.0	Phase	320
Echo Train Length	8	Freq DIR	S/I
Receiver Bandwidth	35.71	Fat Shift DIR	Normal (I)
<b>IMAGE ENHANCE</b>		NEX	2.00
Filter Choice	A	Phase FOV	1.00
<b>GATING/TRIGGER</b>		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
<b>FMRI</b>		<b>USER CVS</b>	
PSD Trigger	Internal	User CV8	1.00
View Order	Bottom/Up	User CV19	1.00
# of Repetitions REST	0	User CV22	1.00
# of Repetitions ACTIVE	0	TR Min	1800.0
<b>SAT</b>		TR Max	11000.0
Tag Type	None	<b>MULTI-PHASE</b>	
Fat/Water Saturation	Fat Classic	Seperate Series	0
<b>TRICKS</b>		Mask Phase	0
Pause On/Off	On	Mask Pause	0
Auto Subtract	0	<b>DIFFUSION</b>	
Auto SCIC	2	Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	No

COR PD F/S

COR PD F/S

Protocol: adult\_upperExtremities\_MSJ WRIST

COR T1 FSE	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Prone	Pulse Sequence	FSE-XL
	Coil Configuration	GEM Flex Small Array	Imaging Options	FC, EDR, TRF, Fast
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	COR T1 FSE	FOV	12.0
	<b>SCAN TIMING</b>		Slice Thickness	2.5
	Flip Angle	111	Slice Spacing	0.5
	TE	Min Full	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	352
	TR	467.0	Phase	224
	Echo Train Length	3	Freq DIR	S/I
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (I)
	<b>IMAGE ENHANCE</b>		NEX	2.00
	Filter Choice	A	# of Acq. Before Pause	0
	<b>GATING/TRIGGER</b>		Phase FOV	1.00
	Auto Trigger Type	Off	Auto Shim	Auto
	<b>FMRI</b>		Phase Correction	Yes
	PSD Trigger	Internal	Flow Direction Compensation	Freq
	View Order	Bottom/Up	<b>USER CVS</b>	
	# of Repetitions REST	0	User CV8	1.00
	# of Repetitions ACTIVE	0	User CV22	1.00
	<b>SAT</b>		TR Min	400.0
	Tag Type	None	TR Max	850.0
	<b>TRICKS</b>		<b>MULTI-PHASE</b>	
Pause On/Off	On	Seperate Series	0	
Auto Subtract	0	Mask Phase	0	
Auto SCIC	2	Mask Pause	0	
		<b>DIFFUSION</b>		
		Recon All Images	On	
		<b>CONTRAST</b>		
		Contrast Yes/No	No	

COR T1 FSE



Protocol: adult\_upperExtremities\_MSJ WRIST

Ax T1 FSE	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		Ax T1 FSE
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Prone	Pulse Sequence	FSE-XL	
	Coil Configuration	GEM Flex Small Array	Imaging Options	FC, EDR, TRF, Fast	
	Plane	OBLIQUE	<b>SCAN RANGE</b>		
	Series Description	Ax T1 FSE	FOV	10.0	
	<b>SCAN TIMING</b>		Slice Thickness	2.5	
	Flip Angle	111	Slice Spacing	0.5	
	TE	Min Full	<b>ACQ TIMING</b>		
	Number of Echoes	1	Freq	352	
	TR	463.0	Phase	224	
	Echo Train Length	3	Freq DIR	R/L	
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (L)	
	<b>IMAGE ENHANCE</b>		NEX	2.00	
	Filter Choice	A	# of Acq. Before Pause	0	
	<b>GATING/TRIGGER</b>		Phase FOV	0.80	
	Auto Trigger Type	Off	Auto Shim	Auto	
	<b>FMRI</b>		Phase Correction	Yes	
	PSD Trigger	Internal	Flow Direction Compensation	Slice	
	View Order	Bottom/Up	<b>USER CVS</b>		
	# of Repetitions REST	0	User CV8	1.00	
	# of Repetitions ACTIVE	0	User CV22	1.00	
	<b>SAT</b>		TR Min	400.0	
	Tag Type	None	TR Max	850.0	
	<b>TRICKS</b>		<b>MULTI-PHASE</b>		
Pause On/Off	On	Seperate Series	0		
Auto Subtract	0	Mask Phase	0		
Auto SCIC	2	Mask Pause	0		
		<b>DIFFUSION</b>			
		Recon All Images	On		
		<b>CONTRAST</b>			
		Contrast Yes/No	No		

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Prone	Pulse Sequence	FSE-XL
Coil Configuration	GEM Flex Small Array	Imaging Options	Seq, EDR, TRF, Fast, IrP
Plane	OBLIQUE	PSD Name	fse-xl
Series Description	SAG STIR	<b>SCAN RANGE</b>	
<b>SCAN TIMING</b>		FOV	12.0
Flip Angle	111	Slice Thickness	2.5
TE	50.0	Slice Spacing	0.5
Number of Echoes	1	<b>ACQ TIMING</b>	
TR	4422.0	Freq	320
TI	170	Phase	224
Echo Train Length	11	Freq DIR	S/I
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (I)
<b>IMAGE ENHANCE</b>		NEX	2.00
Filter Choice	None	Phase FOV	1.00
<b>GATING/TRIGGER</b>		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
<b>FMRI</b>		<b>USER CVS</b>	
PSD Trigger	Internal	User CV7	1.00
View Order	Bottom/Up	User CV8	1.00
# of Repetitions REST	0	User CV22	1.00
# of Repetitions ACTIVE	0	TR Min	2000.0
<b>SAT</b>		TR Max	15000.0
SAT Location	S	<b>MULTI-PHASE</b>	
SAT Location	I	Seperate Series	0
Tag Type	None	Mask Phase	0
<b>TRICKS</b>		Mask Pause	0
Pause On/Off	On	<b>DIFFUSION</b>	
Auto Subtract	0	Recon All Images	On
Auto SCIC	Off	<b>CONTRAST</b>	
		Contrast Yes/No	No

SAG STIR

SAG STIR

Protocol: adult\_upperExtremities\_MSK WRIST

<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Prone	Pulse Sequence	Spin Echo
Coil Configuration	48Ch Head Coil	Imaging Options	Seq, EDR, TRF, Fast, SS, ARC
Plane	3-PLANE	<b>SCAN RANGE</b>	
Series Description	*MASS*	FOV	30.0
<b>SCAN TIMING</b>		Slice Thickness	10.0
TE	80.0	Slice Spacing	5.0
Number of Echoes	1	<b>ACQ TIMING</b>	
TR	1000.0	Freq	256
Receiver Bandwidth	83.33	Phase	128
<b>IMAGE ENHANCE</b>		Freq DIR	Unswap
Filter Choice	None	# of Acq. Before Pause	0
<b>GATING/TRIGGER</b>		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
<b>MULTI-PHASE</b>		Phase Correction	No
Seperate Series	0	<b>FMRI</b>	
Mask Phase	0	PSD Trigger	Internal
Mask Pause	0	View Order	Bottom/Up
<b>DIFFUSION</b>		# of Repetitions REST	0
Recon All Images	On	# of Repetitions ACTIVE	0
<b>CONTRAST</b>		<b>SAT</b>	
Contrast Yes/No	No	Tag Type	None
		<b>TRICKS</b>	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	Off
		<b>OTHERS</b>	
		Protocol Notes	<p><i>Important Tip:                      Improve Head SAR performance will be seen with during a brain exam if the SSFSE localizer calculation is lower than 3.2 W/kg                      Keep the TR at 1000 msec in order to lower SAR estimations</i></p>

\*MASS\*

\*MASS\*

WB-SAR: 0.68 Head-SAR: 2.0

McLeod Pavilion

Protocol: adult\_upperExtremities\_MSK WRIST

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Prone	Pulse Sequence	FSE-XL
Coil Configuration	GEM Flex Small Array	Imaging Options	FC, EDR, TRF, Fast, ARC
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	AX T1 FSE F/S PRE AND POST	FOV	12.0
<b>SCAN TIMING</b>		Slice Thickness	2.5
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	320
TR	845.0	Phase	192
Echo Train Length	3	Freq DIR	R/L
Receiver Bandwidth	50.00	Fat Shift DIR	Normal (L)
<b>IMAGE ENHANCE</b>		NEX	3.00
Filter Choice	A	# of Acq. Before Pause	0
<b>GATING/TRIGGER</b>		Phase FOV	0.80
Auto Trigger Type	Off	Auto Shim	Auto
<b>FMRI</b>		Phase Correction	Yes
PSD Trigger	Internal	Flow Direction Compensation	Slice
View Order	Bottom/Up	<b>USER CVS</b>	
# of Repetitions REST	0	User CV8	1.00
# of Repetitions ACTIVE	0	User CV19	1.00
<b>SAT</b>		User CV22	1.00
Tag Type	None	TR Min	400.0
Fat/Water Saturation	Fat Classic	TR Max	850.0
<b>TRICKS</b>		<b>MULTI-PHASE</b>	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	2	Mask Pause	0
		<b>DIFFUSION</b>	
		Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	No

AX T1 FSE F/S PRE AND POST

AX T1 FSE F/S PRE AND POST

Protocol: adult\_upperExtremities\_MSK WRIST

SAG T1 FSE F/S PRE AND POST	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Prone	Pulse Sequence	FSE-XL
	Coil Configuration	GEM Flex Small Array	Imaging Options	FC, EDR, TRF, Fast, ARC
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	SAG T1 FSE F/S PRE AND POST	FOV	12.0
	<b>SCAN TIMING</b>		Slice Thickness	2.5
	Flip Angle	111	Slice Spacing	0.5
	TE	Min Full	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	320
	TR	845.0	Phase	192
	Echo Train Length	3	Freq DIR	R/L
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (L)
	<b>IMAGE ENHANCE</b>		NEX	3.00
	Filter Choice	A	# of Acq. Before Pause	0
	<b>GATING/TRIGGER</b>		Phase FOV	0.80
	Auto Trigger Type	Off	Auto Shim	Auto
	<b>FMRI</b>		Phase Correction	Yes
	PSD Trigger	Internal	Flow Direction Compensation	Slice
	View Order	Bottom/Up	<b>USER CVS</b>	
	# of Repetitions REST	0	User CV8	1.00
	# of Repetitions ACTIVE	0	User CV19	1.00
	<b>SAT</b>		User CV22	1.00
	Tag Type	None	TR Min	400.0
	Fat/Water Saturation	Fat Classic	TR Max	850.0
<b>TRICKS</b>		<b>MULTI-PHASE</b>		
Pause On/Off	On	Seperate Series	0	
Auto Subtract	0	Mask Phase	0	
Auto SCIC	2	Mask Pause	0	
		<b>DIFFUSION</b>		
		Recon All Images	On	
		<b>CONTRAST</b>		
		Contrast Yes/No	No	

SAG T1 FSE F/S PRE AND POST

Protocol: adult\_upperExtremities\_MSJ WRIST

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Prone	Pulse Sequence	FSE-XL
Coil Configuration	GEM Flex Small Array	Imaging Options	FC, EDR, TRF, Fast
Plane	OBLIQUE	<b>SCAN RANGE</b>	
Series Description	COR T1 FSE POST	FOV	12.0
<b>SCAN TIMING</b>		Slice Thickness	2.5
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	352
TR	467.0	Phase	224
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	50.00	Fat Shift DIR	Normal (I)
<b>IMAGE ENHANCE</b>		NEX	2.00
Filter Choice	A	# of Acq. Before Pause	0
<b>GATING/TRIGGER</b>		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
<b>FMRI</b>		Phase Correction	Yes
PSD Trigger	Internal	Flow Direction Compensation	Freq
View Order	Bottom/Up	<b>USER CVS</b>	
# of Repetitions REST	0	User CV8	1.00
# of Repetitions ACTIVE	0	User CV22	1.00
<b>SAT</b>		TR Min	400.0
Tag Type	None	TR Max	850.0
<b>TRICKS</b>		<b>MULTI-PHASE</b>	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	2	Mask Pause	0
		<b>DIFFUSION</b>	
		Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	No

COR T1 FSE POST

COR T1 FSE POST

Protocol: adult\_upperExtremities\_MSK WRIST

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Prone	Pulse Sequence	Spin Echo
Coil Configuration	GEM Flex Small Array	Imaging Options	Seq, EDR, Fast, SS
Plane	3-PLANE	<b>SCAN RANGE</b>	
Series Description	***ARTHROGRAM***	FOV	22.0
<b>SCAN TIMING</b>		Slice Thickness	5.0
TE	85.0	Slice Spacing	5.0
Number of Echoes	1	<b>ACQ TIMING</b>	
TR	Minimum	Freq	384
Receiver Bandwidth	62.50	Phase	256
<b>IMAGE ENHANCE</b>		Freq DIR	Unswap
Filter Choice	None	# of Acq. Before Pause	0
<b>GATING/TRIGGER</b>		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
<b>FMRI</b>		Phase Correction	No
PSD Trigger	Internal	<b>USER CVS</b>	
View Order	Bottom/Up	User CV2	240.00
# of Repetitions REST	0	User CV13	1.00
# of Repetitions ACTIVE	0	<b>MULTI-PHASE</b>	
<b>SAT</b>		Seperate Series	0
Tag Type	None	Mask Phase	0
<b>TRICKS</b>		Mask Pause	0
Pause On/Off	On	<b>DIFFUSION</b>	
Auto Subtract	0	Recon All Images	On
Auto SCIC	Off	<b>CONTRAST</b>	
		Contrast Yes/No	No

\*\*\*ARTHROGRAM\*\*\*

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Protocol: adult\_upperExtremities\_MSJ WRIST

+c SAG T1 FSE FATSAT	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Prone	Pulse Sequence	FSE-XL
	Coil Configuration	GEM Flex Small Array	Imaging Options	FC, EDR, TRF, Fast, ARC
	Plane	SAGITTAL	<b>SCAN RANGE</b>	
	Series Description	+c SAG T1 FSE FATSAT	FOV	10.0
	<b>SCAN TIMING</b>		Slice Thickness	2.5
	Flip Angle	111	Slice Spacing	0.5
	TE	Min Full	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	320
	TR	535.0	Phase	192
	Echo Train Length	3	Freq DIR	S/I
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (S)
	<b>IMAGE ENHANCE</b>		NEX	2.00
	Filter Choice	A	# of Acq. Before Pause	0
	<b>GATING/TRIGGER</b>		Phase FOV	0.90
	Auto Trigger Type	Off	Auto Shim	Auto
	<b>FMRI</b>		Phase Correction	Yes
	PSD Trigger	Internal	Flow Direction Compensation	Freq
	View Order	Bottom/Up	<b>USER CVS</b>	
	# of Repetitions REST	0	User CV8	1.00
	# of Repetitions ACTIVE	0	User CV19	1.00
	<b>SAT</b>		User CV22	1.00
	Tag Type	None	TR Min	400.0
	Fat/Water Saturation	Fat Classic	TR Max	850.0
<b>TRICKS</b>		<b>MULTI-PHASE</b>		
Pause On/Off	On	Seperate Series	0	
Auto Subtract	0	Mask Phase	0	
Auto SCIC	2	Mask Pause	0	
		<b>DIFFUSION</b>		
		Recon All Images	On	
		<b>CONTRAST</b>		
		Contrast Yes/No	Yes	

+c SAG T1 FSE FATSAT



Protocol: adult\_upperExtremities\_MSJ WRIST

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Prone	Pulse Sequence	FSE-XL
Coil Configuration	GEM Flex Small Array	Imaging Options	FC, EDR, TRF, Fast, ARC
Plane	CORONAL	<b>SCAN RANGE</b>	
Series Description	+C COR T1 FSE FATSAT	FOV	10.0
<b>SCAN TIMING</b>		Slice Thickness	2.5
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	<b>ACQ TIMING</b>	
Number of Echoes	1	Freq	320
TR	535.0	Phase	192
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	50.00	Fat Shift DIR	Normal (I)
<b>IMAGE ENHANCE</b>		NEX	2.00
Filter Choice	A	# of Acq. Before Pause	0
<b>GATING/TRIGGER</b>		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
<b>FMRI</b>		Phase Correction	Yes
PSD Trigger	Internal	Flow Direction Compensation	Freq
View Order	Bottom/Up	<b>USER CVS</b>	
# of Repetitions REST	0	User CV8	1.00
# of Repetitions ACTIVE	0	User CV19	1.00
<b>SAT</b>		User CV22	1.00
Tag Type	None	TR Min	400.0
Fat/Water Saturation	Fat Classic	TR Max	850.0
<b>TRICKS</b>		<b>MULTI-PHASE</b>	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	2	Mask Pause	0
		<b>DIFFUSION</b>	
		Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	Yes

+C COR T1 FSE FATSAT

+C COR T1 FSE FATSAT