

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

3-Plane Loc	PATIENT POSITION		IMAGING PARAMETERS		3-Plane Loc
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Prone	Pulse Sequence	Gradient Echo	
	Coil Configuration	GEM Flex Small Array	Imaging Options	Seq, Fast	
	Plane	3-PLANE	SCAN RANGE		
	Series Description	3-Plane Loc	FOV	36.0	
	SCAN TIMING		Slice Thickness	5.0	
	Number of Echoes	1	Slice Spacing	5.0	
	IMAGE ENHANCE		ACQ TIMING		
	Filter Choice	None	Freq	256	
	GATING/TRIGGER		Phase	128	
	Auto Trigger Type	Off	Freq DIR	Unswap	
	MULTI-PHASE		NEX	1.00	
	Seperate Series	0	Phase FOV	1.00	
	Mask Phase	0	Auto Shim	Auto	
	Mask Pause	0	Phase Correction	No	
	DIFFUSION		FMRI		
	Recon All Images	On	PSD Trigger	Internal	
	CONTRAST		View Order	Bottom/Up	
	Contrast Yes/No	No	# of Repetitions REST	0	
		# of Repetitions ACTIVE	0		
		SAT			
		Tag Type	None		
		TRICKS			
		Pause On/Off	On		
		Auto Subtract	0		
		Auto SCIC	Off		

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3-Plane Loc SM FOV	PATIENT POSITION		IMAGING PARAMETERS		3-Plane Loc SM FOV
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Prone	Pulse Sequence	Gradient Echo	
	Coil Configuration	GEM Flex Small Array	Imaging Options	Seq, Fast	
	Plane	3-PLANE	SCAN RANGE		
	Series Description	3-Plane Loc SM FOV	FOV	18.0	
	SCAN TIMING		Slice Thickness	5.0	
	Number of Echoes	1	Slice Spacing	5.0	
	IMAGE ENHANCE		ACQ TIMING		
	Filter Choice	None	Freq	256	
	GATING/TRIGGER		Phase	128	
	Auto Trigger Type	Off	Freq DIR	Unswap	
	MULTI-PHASE		NEX	1.00	
	Seperate Series	0	Phase FOV	1.00	
	Mask Phase	0	Auto Shim	Auto	
	Mask Pause	0	Phase Correction	No	
	DIFFUSION		FMRI		
	Recon All Images	On	PSD Trigger	Internal	
	CONTRAST		View Order	Bottom/Up	
	Contrast Yes/No	No	# of Repetitions REST	0	
		# of Repetitions ACTIVE	0		
		SAT			
		Tag Type	None		
		TRICKS			
		Pause On/Off	On		
		Auto Subtract	0		
		Auto SCIC	Off		

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

AX T1W PRE	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, ZIP512
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	AX T1W PRE	FOV	10.0
	SCAN TIMING		Slice Thickness	2.5
	Flip Angle	120	Slice Spacing	0.5
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	256
	TR	550.0	Phase	192
	Echo Train Length	3	Freq DIR	R/L
	Receiver Bandwidth	25.00	Fat Shift DIR	Normal (L)
	IMAGE ENHANCE		NEX	2.00
	Filter Choice	None	# of Acq. Before Pause	0
	GATING/TRIGGER		Phase FOV	0.70
	Auto Trigger Type	Off	Auto Shim	Auto
	FMRI		Phase Correction	Yes
	PSD Trigger	Internal	USER CVS	
	View Order	Bottom/Up	User CV8	2.00
	# of Repetitions REST	0	User CV9	1.00
	# of Repetitions ACTIVE	0	User CV22	1.00
	SAT		TR Min	350.0
	SAT Location	S	TR Max	800.0
	Tag Type	None	MULTI-PHASE	
	TRICKS		Seperate Series	0
	Pause On/Off	On	Mask Phase	0
	Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	DIFFUSION		
		Recon All Images	On	
		CONTRAST		
		Contrast Yes/No	No	

AX T1W PRE

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

AX T2W	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, ZIP512, FR
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	AX T2W	FOV	10.0
	SCAN TIMING		Slice Thickness	2.5
	Flip Angle	160	Slice Spacing	0.5
	TE	65.0	ACQ TIMING	
	Number of Echoes	1	Freq	256
	TR	5420.0	Phase	192
	Echo Train Length	17	Freq DIR	R/L
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
	IMAGE ENHANCE		NEX	3.00
	Filter Choice	None	Phase FOV	0.70
	GATING/TRIGGER		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	Yes
	FMRI		USER CVS	
	PSD Trigger	Internal	User CV8	1.00
	View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	2500.0	
# of Repetitions ACTIVE	0	TR Max	8000.0	
SAT		MULTI-PHASE		
SAT Location	S	Seperate Series	0	
Tag Type	None	Mask Phase	0	
TRICKS		Mask Pause	0	
Pause On/Off	On	DIFFUSION		
Auto Subtract	0	Recon All Images	On	
Auto SCIC	Off	CONTRAST		
		Contrast Yes/No	No	

AX T2W

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

AX T2W FS	PATIENT POSITION		IMAGING PARAMETERS		AX T2W FS
	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, ZIP512, FR	
	Plane	OBLIQUE	SCAN RANGE		
	Series Description	AX T2W FS	FOV	10.0	
	SCAN TIMING		Slice Thickness	2.5	
	Flip Angle	160	Slice Spacing	0.5	
	TE	65.0	ACQ TIMING		
	Number of Echoes	1	Freq	256	
	TR	5948.0	Phase	192	
	Echo Train Length	17	Freq DIR	R/L	
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)	
	IMAGE ENHANCE		NEX	3.00	
	Filter Choice	None	Phase FOV	0.70	
	GATING/TRIGGER		Auto Shim	Auto	
	Auto Trigger Type	Off	Phase Correction	Yes	
	FMRI		USER CVS		
	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	2500.0		
SAT		TR Max	8000.0		
SAT Location	S	MULTI-PHASE			
Tag Type	None	Seperate Series	0		
Fat/Water Saturation	Fat Classic	Mask Phase	0		
TRICKS		Mask Pause	0		
Pause On/Off	On	DIFFUSION			
Auto Subtract	0	Recon All Images	On		
Auto SCIC	Off	CONTRAST			
		Contrast Yes/No	No		

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

COR T1W PRE	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, ZIP512
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	COR T1W PRE	FOV	10.0
	SCAN TIMING		Slice Thickness	2.5
	Flip Angle	120	Slice Spacing	0.5
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	320
	TR	395.0	Phase	224
	Echo Train Length	3	Freq DIR	S/I
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (I)
	IMAGE ENHANCE		NEX	3.00
	Filter Choice	None	Phase FOV	1.00
	GATING/TRIGGER		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	Yes
	FMRI		USER CVS	
	PSD Trigger	Internal	User CV8	2.00
	View Order	Bottom/Up	User CV9	1.00
	# of Repetitions REST	0	User CV22	1.00
	# of Repetitions ACTIVE	0	TR Min	375.0
	SAT		TR Max	750.0
	Tag Type	None	MULTI-PHASE	
	TRICKS		Seperate Series	0
	Pause On/Off	On	Mask Phase	0
	Auto Subtract	0	Mask Pause	0
	Auto SCIC	Off	DIFFUSION	
		Recon All Images	On	
		CONTRAST		
		Contrast Yes/No	No	

COR T1W PRE

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

COR T2W FS	PATIENT POSITION		IMAGING PARAMETERS		COR T2W FS
	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, ZIP512, FR	
	Plane	OBLIQUE	SCAN RANGE		
	Series Description	COR T2W FS	FOV	10.0	
	SCAN TIMING		Slice Thickness	2.5	
	Flip Angle	160	Slice Spacing	0.5	
	TE	65.0	ACQ TIMING		
	Number of Echoes	1	Freq	288	
	TR	2500.0	Phase	224	
	Echo Train Length	18	Freq DIR	S/I	
	Receiver Bandwidth	35.71	Fat Shift DIR	Normal (I)	
	IMAGE ENHANCE		NEX	4.00	
	Filter Choice	None	Phase FOV	1.00	
	GATING/TRIGGER		Auto Shim	Auto	
	Auto Trigger Type	Off	Phase Correction	Yes	
	FMRI		USER CVS		
	PSD Trigger	Internal	User CV8	2.00	
	View Order	Bottom/Up	User CV9	1.00	
	# of Repetitions REST	0	User CV19	1.00	
	# of Repetitions ACTIVE	0	User CV22	1.00	
	SAT		TR Min	2500.0	
	Tag Type	None	TR Max	6000.0	
	Fat/Water Saturation	Fat Classic	MULTI-PHASE		
TRICKS		Seperate Series	0		
Pause On/Off	On	Mask Phase	0		
Auto Subtract	0	Mask Pause	0		
Auto SCIC	Off	DIFFUSION			
		Recon All Images	On		
		CONTRAST			
		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	EDR, TRF, Fast, ZIP512, FR
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR T2W	FOV	10.0
SCAN TIMING		Slice Thickness	2.5
Flip Angle	160	Slice Spacing	0.5
TE	65.0	ACQ TIMING	
Number of Echoes	1	Freq	288
TR	2500.0	Phase	224
Echo Train Length	18	Freq DIR	S/I
Receiver Bandwidth	35.71	Fat Shift DIR	Normal (I)
IMAGE ENHANCE		NEX	4.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV8	2.00
View Order	Bottom/Up	User CV9	1.00
# of Repetitions REST	0	User CV22	1.00
# of Repetitions ACTIVE	0	TR Min	2500.0
SAT		TR Max	6000.0
Tag Type	None	MULTI-PHASE	
TRICKS		Seperate Series	0
Pause On/Off	On	Mask Phase	0
Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

COR T2W

COR T2W

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SAG T1W PRE	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, ZIP512
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	SAG T1W PRE	FOV	10.0
	SCAN TIMING		Slice Thickness	2.5
	Flip Angle	120	Slice Spacing	0.5
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	320
	TR	396.0	Phase	224
	Echo Train Length	3	Freq DIR	S/I
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (S)
	IMAGE ENHANCE		NEX	3.00
	Filter Choice	None	Phase FOV	1.00
	GATING/TRIGGER		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	Yes
	FMRI		USER CVS	
	PSD Trigger	Internal	User CV8	2.00
	View Order	Bottom/Up	User CV9	1.00
	# of Repetitions REST	0	User CV22	1.00
	# of Repetitions ACTIVE	0	TR Min	375.0
	SAT		TR Max	750.0
	Tag Type	None	MULTI-PHASE	
	TRICKS		Seperate Series	0
	Pause On/Off	On	Mask Phase	0
	Auto Subtract	0	Mask Pause	0
	Auto SCIC	Off	DIFFUSION	
		Recon All Images	On	
		CONTRAST		
		Contrast Yes/No	No	

SAG T1W PRE

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

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, ZIP512, FR
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAG T2W FS	FOV	10.0
SCAN TIMING		Slice Thickness	2.5
Flip Angle	160	Slice Spacing	0.5
TE	65.0	ACQ TIMING	
Number of Echoes	1	Freq	288
TR	2500.0	Phase	224
Echo Train Length	18	Freq DIR	S/I
Receiver Bandwidth	35.71	Fat Shift DIR	Normal (S)
IMAGE ENHANCE		NEX	4.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV8	2.00
View Order	Bottom/Up	User CV9	1.00
# of Repetitions REST	0	User CV19	1.00
# of Repetitions ACTIVE	0	User CV22	1.00
SAT		TR Min	2500.0
Tag Type	None	TR Max	6000.0
Fat/Water Saturation	Fat Classic	MULTI-PHASE	
TRICKS		Seperate Series	0
Pause On/Off	On	Mask Phase	0
Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

SAG T2W FS

SAG T2W FS

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

SAG T2W	PATIENT POSITION		IMAGING PARAMETERS		SAG T2W
	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, ZIP512, FR	
	Plane	OBLIQUE	SCAN RANGE		
	Series Description	SAG T2W	FOV	10.0	
	SCAN TIMING		Slice Thickness	2.5	
	Flip Angle	160	Slice Spacing	0.5	
	TE	65.0	ACQ TIMING		
	Number of Echoes	1	Freq	288	
	TR	2500.0	Phase	224	
	Echo Train Length	18	Freq DIR	S/I	
	Receiver Bandwidth	35.71	Fat Shift DIR	Normal (S)	
	IMAGE ENHANCE		NEX	4.00	
	Filter Choice	None	Phase FOV	1.00	
	GATING/TRIGGER		Auto Shim	Auto	
	Auto Trigger Type	Off	Phase Correction	Yes	
	FMRI		USER CVS		
	PSD Trigger	Internal	User CV8	2.00	
	View Order	Bottom/Up	User CV9	1.00	
	# of Repetitions REST	0	User CV22	1.00	
	# of Repetitions ACTIVE	0	TR Min	2500.0	
	SAT		TR Max	6000.0	
	Tag Type	None	MULTI-PHASE		
	TRICKS		Seperate Series	0	
Pause On/Off	On	Mask Phase	0		
Auto Subtract	0	Mask Pause	0		
Auto SCIC	Off	DIFFUSION			
		Recon All Images	On		
		CONTRAST			
		Contrast Yes/No	No		

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

AX T1W FS POST	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, ZIP512
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	AX T1W FS POST	FOV	10.0
	SCAN TIMING		Slice Thickness	2.5
	Flip Angle	120	Slice Spacing	0.5
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	256
	TR	748.0	Phase	160
	Echo Train Length	3	Freq DIR	R/L
	Receiver Bandwidth	20.83	Fat Shift DIR	Normal (L)
	IMAGE ENHANCE		NEX	2.00
	Filter Choice	None	# of Acq. Before Pause	0
	GATING/TRIGGER		Phase FOV	0.70
	Auto Trigger Type	Off	Auto Shim	Auto
	FMRI		Phase Correction	Yes
	PSD Trigger	Internal	USER CVS	
	View Order	Bottom/Up	User CV8	2.00
	# of Repetitions REST	0	User CV9	1.00
	# of Repetitions ACTIVE	0	User CV19	1.00
	SAT		User CV22	1.00
	SAT Location	S	TR Min	350.0
	Tag Type	None	TR Max	800.0
Fat/Water Saturation	Fat Classic	MULTI-PHASE		
TRICKS		Seperate Series	0	
Pause On/Off	On	Mask Phase	0	
Auto Subtract	0	Mask Pause	0	
Auto SCIC	Off	DIFFUSION		
		Recon All Images	On	
		CONTRAST		
		Contrast Yes/No	Yes	

AX T1W FS POST

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

COR T1W FS POST	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, ZIP512
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	COR T1W FS POST	FOV	10.0
	SCAN TIMING		Slice Thickness	2.5
	Flip Angle	120	Slice Spacing	0.5
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	288
	TR	702.0	Phase	192
	Echo Train Length	3	Freq DIR	S/I
	Receiver Bandwidth	22.73	Fat Shift DIR	Normal (I)
	IMAGE ENHANCE		NEX	2.00
	Filter Choice	None	Phase FOV	1.00
	GATING/TRIGGER		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	Yes
	FMRI		USER CVS	
	PSD Trigger	Internal	User CV8	2.00
	View Order	Bottom/Up	User CV9	1.00
	# of Repetitions REST	0	User CV19	1.00
	# of Repetitions ACTIVE	0	User CV22	1.00
	SAT		TR Min	375.0
	Tag Type	None	TR Max	750.0
	Fat/Water Saturation	Fat Classic	MULTI-PHASE	
TRICKS		Seperate Series	0	
Pause On/Off	On	Mask Phase	0	
Auto Subtract	0	Mask Pause	0	
Auto SCIC	Off	DIFFUSION		
		Recon All Images	On	
		CONTRAST		
		Contrast Yes/No	Yes	

COR T1W FS POST

Protocol: adult_upperExtremities_FINGER W/WO SUPERMAN WIP

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, ZIP512
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAG T1W FS POST	FOV	10.0
SCAN TIMING		Slice Thickness	2.5
Flip Angle	120	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	672.0	Phase	224
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (S)
IMAGE ENHANCE		NEX	3.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV8	2.00
View Order	Bottom/Up	User CV9	1.00
# of Repetitions REST	0	User CV19	1.00
# of Repetitions ACTIVE	0	User CV22	1.00
SAT		TR Min	375.0
Tag Type	None	TR Max	750.0
Fat/Water Saturation	Fat Classic	MULTI-PHASE	
TRICKS		Seperate Series	0
Pause On/Off	On	Mask Phase	0
Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	Yes

SAG T1W FS POST

SAG T1W FS POST