

Protocol: adult\_upperExtremities\_Forearm wo w lump head first prone

3-Plane Loc	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		3-Plane Loc
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Prone	Pulse Sequence	Gradient Echo	
	Coil Configuration	GEM Flex Large Array	Imaging Options	Seq, Fast	
	Plane	3-PLANE	<b>SCAN RANGE</b>		
	Series Description	3-Plane Loc	FOV	50.0	
	<b>SCAN TIMING</b>		Slice Thickness	5.0	
	Number of Echoes	1	Slice Spacing	5.0	
	<b>IMAGE ENHANCE</b>		<b>ACQ TIMING</b>		
	Filter Choice	None	Freq	256	
	<b>GATING/TRIGGER</b>		Phase	128	
	Auto Trigger Type	Off	Freq DIR	Unswap	
	<b>MULTI-PHASE</b>		NEX	1.00	
	Seperate Series	0	Phase FOV	1.00	
	Mask Phase	0	Auto Shim	Auto	
	Mask Pause	0	Phase Correction	No	
	<b>DIFFUSION</b>		<b>FMRI</b>		
	Recon All Images	On	PSD Trigger	Internal	
	<b>CONTRAST</b>		View Order	Bottom/Up	
	Contrast Yes/No	No	# of Repetitions REST	0	
			# of Repetitions ACTIVE	0	
			<b>SAT</b>		
			Tag Type	None	
			<b>TRICKS</b>		
			Pause On/Off	On	
		Auto Subtract	0		
		Auto SCIC	Off		

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3-Plane Loc	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		3-Plane Loc
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Prone	Pulse Sequence	Gradient Echo	
	Coil Configuration	GEM Flex Large Array	Imaging Options	Seq, Fast	
	Plane	3-PLANE	<b>SCAN RANGE</b>		
	Series Description	3-Plane Loc	FOV	30.0	
	<b>SCAN TIMING</b>		Slice Thickness	5.0	
	Number of Echoes	1	Slice Spacing	5.0	
	<b>IMAGE ENHANCE</b>		<b>ACQ TIMING</b>		
	Filter Choice	None	Freq	256	
	<b>GATING/TRIGGER</b>		Phase	128	
	Auto Trigger Type	Off	Freq DIR	Unswap	
	<b>MULTI-PHASE</b>		NEX	1.00	
	Seperate Series	0	Phase FOV	1.00	
	Mask Phase	0	Auto Shim	Auto	
	Mask Pause	0	Phase Correction	No	
	<b>DIFFUSION</b>		<b>FMRI</b>		
	Recon All Images	On	PSD Trigger	Internal	
	<b>CONTRAST</b>		View Order	Bottom/Up	
	Contrast Yes/No	No	# of Repetitions REST	0	
		# of Repetitions ACTIVE	0		
		<b>SAT</b>			
		Tag Type	None		
		<b>TRICKS</b>			
		Pause On/Off	On		
		Auto Subtract	0		
		Auto SCIC	Off		

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Ax T1	<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 Large Array	Imaging Options	EDR, TRF, Fast
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	Ax T1	FOV	16.0
	<b>SCAN TIMING</b>		Slice Thickness	4.0
	Flip Angle	120	Slice Spacing	1.5
	TE	Min Full	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	320
	TR	795.0	Phase	192
	Echo Train Length	4	Freq DIR	R/L
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
	<b>IMAGE ENHANCE</b>		NEX	3.00
	Filter Choice	None	# 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	<b>USER CVS</b>	
	View Order	Bottom/Up	User CV8	2.00
	# of Repetitions REST	0	User CV9	1.00
	# of Repetitions ACTIVE	0	User CV22	1.00
	<b>SAT</b>		TR Min	350.0
	SAT Location	S	TR Max	800.0
	Tag Type	None	<b>MULTI-PHASE</b>	
<b>TRICKS</b>		Seperate Series	0	
Pause On/Off	On	Mask Phase	0	
Auto Subtract	0	Mask Pause	0	
Auto SCIC	Off	<b>DIFFUSION</b>		
		Recon All Images	On	
		<b>CONTRAST</b>		
		Contrast Yes/No	No	

Ax T1

Protocol: adult\_upperExtremities\_Forearm wo w lump head first prone

Ax T2 Fat Sat	<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 Large Array	Imaging Options	Seq, EDR, TRF, Fast, FR
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	Ax T2 Fat Sat	FOV	16.0
	<b>SCAN TIMING</b>		Slice Thickness	4.0
	Flip Angle	160	Slice Spacing	1.5
	TE	40.0	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	288
	TR	4897.0	Phase	220
	Echo Train Length	16	Freq DIR	R/L
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
	<b>IMAGE ENHANCE</b>		NEX	3.00
	Filter Choice	None	Phase FOV	0.80
	<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	2500.0	
<b>SAT</b>		TR Max	8000.0	
SAT Location	S	<b>MULTI-PHASE</b>		
Tag Type	None	Seperate Series	0	
Fat/Water Saturation	Fat Classic	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	

Ax T2 Fat Sat

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Cor T1	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		Cor T1
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Prone	Pulse Sequence	FSE-XL	
	Coil Configuration	GEM Flex Large Array	Imaging Options	NPW, EDR, TRF, Fast	
	Plane	OBLIQUE	<b>SCAN RANGE</b>		
	Series Description	Cor T1	FOV	20.0	
	<b>SCAN TIMING</b>		Slice Thickness	4.0	
	Flip Angle	120	Slice Spacing	1.5	
	TE	Min Full	<b>ACQ TIMING</b>		
	Number of Echoes	1	Freq	320	
	TR	518.0	Phase	192	
	Echo Train Length	3	Freq DIR	S/I	
	Receiver Bandwidth	35.71	Fat Shift DIR	Normal (S)	
	<b>IMAGE ENHANCE</b>		NEX	3.00	
	Filter Choice	None	Auto Shim	Auto	
	<b>GATING/TRIGGER</b>		Phase Correction	Yes	
	Auto Trigger Type	Off	<b>USER CVS</b>		
	<b>FMRI</b>		User CV8	2.00	
	PSD Trigger	Internal	User CV9	1.00	
	View Order	Bottom/Up	User CV22	1.00	
	# of Repetitions REST	0	TR Min	350.0	
	# of Repetitions ACTIVE	0	TR Max	800.0	
	<b>SAT</b>		<b>MULTI-PHASE</b>		
	Tag Type	None	Seperate Series	0	
	<b>TRICKS</b>		Mask Phase	0	
Pause On/Off	On	Mask Pause	0		
Auto Subtract	0	<b>DIFFUSION</b>			
Auto SCIC	Off	Recon All Images	On		
		<b>CONTRAST</b>			
		Contrast Yes/No	No		

Protocol: adult\_upperExtremities\_Forearm wo w lump head first prone

Cor T2 Fat Sat	<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 Large Array	Imaging Options	Seq, EDR, TRF, Fast, FR
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	Cor T2 Fat Sat	FOV	20.0
	<b>SCAN TIMING</b>		Slice Thickness	4.0
	Flip Angle	160	Slice Spacing	1.5
	TE	40.0	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	288
	TR	2836.0	Phase	220
	Echo Train Length	16	Freq DIR	S/I
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (S)
	<b>IMAGE ENHANCE</b>		NEX	3.00
	Filter Choice	None	Phase FOV	0.75
	<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	2500.0
	<b>SAT</b>		TR Max	8000.0
	SAT Location	S	<b>MULTI-PHASE</b>	
	Tag Type	None	Seperate Series	0
Fat/Water Saturation	Fat Classic	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	

Cor T2 Fat Sat

Protocol: adult\_upperExtremities\_Forearm wo w lump head first prone

Ax T2	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>		Ax T2
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Prone	Pulse Sequence	FSE-XL	
	Coil Configuration	GEM Flex Large Array	Imaging Options	Seq, EDR, TRF, Fast, FR	
	Plane	OBLIQUE	<b>SCAN RANGE</b>		
	Series Description	Ax T2	FOV	16.0	
	<b>SCAN TIMING</b>		Slice Thickness	4.0	
	Flip Angle	160	Slice Spacing	1.5	
	TE	85.0	<b>ACQ TIMING</b>		
	Number of Echoes	1	Freq	288	
	TR	4439.0	Phase	220	
	Echo Train Length	16	Freq DIR	R/L	
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)	
	<b>IMAGE ENHANCE</b>		NEX	3.00	
	Filter Choice	None	Phase FOV	0.80	
	<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 CV22	1.00	
# of Repetitions REST	0	TR Min	2500.0		
# of Repetitions ACTIVE	0	TR Max	8000.0		
<b>SAT</b>		<b>MULTI-PHASE</b>			
SAT Location	S	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		

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Sag T2 Fat Sat	<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 Large Array	Imaging Options	Seq, EDR, TRF, Fast, FR
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	Sag T2 Fat Sat	FOV	20.0
	<b>SCAN TIMING</b>		Slice Thickness	4.0
	Flip Angle	160	Slice Spacing	0.5
	TE	68.0	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	288
	TR	2989.0	Phase	220
	Echo Train Length	16	Freq DIR	S/I
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (I)
	<b>IMAGE ENHANCE</b>		NEX	3.00
	Filter Choice	None	Phase FOV	0.80
	<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	2500.0
	<b>SAT</b>		TR Max	8000.0
	SAT Location	S	<b>MULTI-PHASE</b>	
	Tag Type	None	Seperate Series	0
Fat/Water Saturation	Fat Classic	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 T2 Fat Sat



Protocol: adult\_upperExtremities\_Forearm wo w lump head first prone

Ax T1 Fat Sat pre	<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 Large Array	Imaging Options	EDR, TRF, Fast
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	Ax T1 Fat Sat pre	FOV	16.0
	<b>SCAN TIMING</b>		Slice Thickness	4.0
	Flip Angle	120	Slice Spacing	1.5
	TE	Min Full	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	320
	TR	709.0	Phase	192
	Echo Train Length	4	Freq DIR	R/L
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
	<b>IMAGE ENHANCE</b>		NEX	2.00
	Filter Choice	None	# 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	<b>USER CVS</b>	
	View Order	Bottom/Up	User CV8	2.00
	# of Repetitions REST	0	User CV9	1.00
	# of Repetitions ACTIVE	0	User CV19	1.00
	<b>SAT</b>		User CV22	1.00
	SAT Location	S	TR Min	350.0
	Tag Type	None	TR Max	800.0
Fat/Water Saturation	Fat Classic	<b>MULTI-PHASE</b>		
<b>TRICKS</b>		Seperate Series	0	
Pause On/Off	On	Mask Phase	0	
Auto Subtract	0	Mask Pause	0	
Auto SCIC	Off	<b>DIFFUSION</b>		
		Recon All Images	On	
		<b>CONTRAST</b>		
		Contrast Yes/No	No	

Ax T1 Fat Sat pre

Protocol: adult\_upperExtremities\_Forearm wo w lump head first prone

Ax T1 Fat Sat 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 Large Array	Imaging Options	EDR, TRF, Fast
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	Ax T1 Fat Sat post	FOV	16.0
	<b>SCAN TIMING</b>		Slice Thickness	4.0
	Flip Angle	120	Slice Spacing	1.5
	TE	Min Full	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	320
	TR	709.0	Phase	192
	Echo Train Length	4	Freq DIR	R/L
	Receiver Bandwidth	31.25	Fat Shift DIR	Normal (L)
	<b>IMAGE ENHANCE</b>		NEX	2.00
	Filter Choice	None	# 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	<b>USER CVS</b>	
	View Order	Bottom/Up	User CV8	2.00
	# of Repetitions REST	0	User CV9	1.00
	# of Repetitions ACTIVE	0	User CV19	1.00
	<b>SAT</b>		User CV22	1.00
	SAT Location	S	TR Min	350.0
	Tag Type	None	TR Max	800.0
Fat/Water Saturation	Fat Classic	<b>MULTI-PHASE</b>		
<b>TRICKS</b>		Seperate Series	0	
Pause On/Off	On	Mask Phase	0	
Auto Subtract	0	Mask Pause	0	
Auto SCIC	Off	<b>DIFFUSION</b>		
		Recon All Images	On	
		<b>CONTRAST</b>		
		Contrast Yes/No	No	

Ax T1 Fat Sat post

Protocol: adult\_upperExtremities\_Forearm wo w lump head first prone

Cor T1 post fat sat	<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 Large Array	Imaging Options	NPW, EDR, TRF, Fast
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	Cor T1 post fat sat	FOV	20.0
	<b>SCAN TIMING</b>		Slice Thickness	4.0
	Flip Angle	120	Slice Spacing	1.5
	TE	Min Full	<b>ACQ TIMING</b>	
	Number of Echoes	1	Freq	320
	TR	496.0	Phase	192
	Echo Train Length	3	Freq DIR	S/I
	Receiver Bandwidth	35.71	Fat Shift DIR	Normal (S)
	<b>IMAGE ENHANCE</b>		NEX	2.00
	Filter Choice	None	# of Acq. Before Pause	0
	<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	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
	<b>SAT</b>		TR Min	350.0
	Tag Type	None	TR Max	800.0
	Fat/Water Saturation	Fat Classic	<b>MULTI-PHASE</b>	
	<b>TRICKS</b>		Seperate Series	0
	Pause On/Off	On	Mask Phase	0
	Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	<b>DIFFUSION</b>		
		Recon All Images	On	
		<b>CONTRAST</b>		
		Contrast Yes/No	No	

Cor T1 post fat sat