Protocol: adult_upperExtremities_MSK ARDL 2022 -SHOULDER ARDL

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	Seq, Fast
	SCAN RANGE	
	FOV	36.0
	Slice Thickness	7.00
	Slice Spacing	0.0
	Overlap Locations	0
	ACQ TIMING	
	Freq	256
O	Phase	128
ρ	Freq DIR	Unswap
빌	NEX	1.00
-A	Phase FOV	1.00
1d-:	Auto Shim	Auto
nt 3	Phase Correction	No
Rigl	RF Drive Mode	Single
) - F	Excitation Mode	Selective
0	USER CVS	
13	User CV20	1.00
A.	User CV Mask2	0
Right 3-PLANE LOC - Right 3-PLANE LOC	MULTI-PHASE	
ht 3	Seperate Series	0
Rigl	Mask Phase	0
1	Mask Pause	0
	Preserve	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

ZUZZ -SI IOULDLIX AINDL				
	SCAN TIMING			
ĺ	Number of Echoes	1		
	IMAGE ENHANCE			
	Filter Choice	None		
	GATING/TRIGGER			
	Pause After Navigator Prescan	0		
	FMRI			
	PSD Trigger	Internal		
	View Order	Bottom/Up		
	# of Repetitions REST	0		
	# of Repetitions ACTIVE	0		
	SAT			
	Tag Type	None		
	TRICKS			
	Pause On/Off	On		
	Auto Subtract	0		
	Auto SCIC	Off		

Right 3-PLANE LOC - Right 3-PLANE LOC

	IMA ONIO DADAMETERO	
	IMAGING PARAMETERS	20
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	Seq, Fast
	SCAN RANGE	
	FOV	36.0
	Slice Thickness	7.00
	Slice Spacing	0.0
	Overlap Locations	0
	ACQ TIMING	
	Freq	256
	Phase	128
20	Freq DIR	Unswap
Ш	NEX	1.00
Ν	Phase FOV	1.00
ΡL	Auto Shim	Auto
-61	Phase Correction	No
-efi	RF Drive Mode	Single
1-0	Excitation Mode	Selective
0	USER CVS	
Е	User CV20	1.00
AP.	User CV Mask2	0
Left 3-PLANE LOC - Left 3-PLANE LOC	MULTI-PHASE	
eft 3	Seperate Series	0
Ľ	Mask Phase	0
	Mask Pause	0
	Preserve	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

ZUZZ UNOULDEN 7	INDL	
SCAN TIMING		
Number of Echoes	1	
IMAGE ENHANCE		
Filter Choice	None	
GATING/TRIGGER		
Pause After Navigator Prescan	0	
FMRI		
PSD Trigger	Internal	
View Order	Bottom/Up	
# of Repetitions REST	0	
# of Repetitions ACTIVE	0	()
SAT		0
Tag Type	None	Left 3-PLANE LOC - Left 3-PLANE LOC
TRICKS		P
Pause On/Off	On	3-Р
Auto Subtract	0	eft :
Auto SCIC	Off	-F
		00
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		Left

	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	2D	Flip Angle	160	
	Pulse Sequence	FSE-XL	TE	45.0	
	Imaging Options	EDR, TRF, Fast, ARC	Number of Echoes	1	
	Phase	1.60	TR	2185.0	
	SCAN RANGE		Echo Train Length	9	
	FOV	15.0	Receiver Bandwidth	27.78	
	Slice Thickness	3.00	IMAGE ENHANCE		
	Slice Spacing	0.0	Filter Choice	None	
	Overlap Locations	0	USER CVS		
	Number of Slices	29	User CV12	1.00	•
	ACQ TIMING		User CV19	1.00	
	Freq	320	TR Min	1500.0	
	Phase	288	TR Max	3500.0	
	Freq DIR	R/L	User CV30	1.00	
	Fat Shift DIR	Normal (L)	User CV39	1.00	
FS	NEX	1.00	User CV Mask2	256	FS
PD	Phase FOV	1.00	MULTI-PHASE		
FS - AX	Auto Shim	Auto	Seperate Series	0	¥
- 0	Phase Correction	Yes	Mask Phase	0	- 0
8	RF Drive Mode	Single	Mask Pause	0	E E
PD	Excitation Mode	Selective	Preserve	0	AX PD FS - AX PD
Α×	FMRI		DIFFUSION		¥
	PSD Trigger	Internal	Recon All Images	On	
	View Order	Bottom/Up	# Synthetic b-values	1	
	# of Repetitions REST	0	Synthetic b-value	1000.0;	
	# of Repetitions ACTIVE	0	CONTRAST	·	
	SAT		Contrast Yes/No	No	•
	SAT Location	R	Oomrast 105/10	140	
	SAT Location	L			
	SAT Location	1			
	Tag Type	None			
	Fat/Water Saturation	Fat Classic			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	2			

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	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	2D	Flip Angle	160	
	Pulse Sequence	FSE-XL	TE	41.0	
	Imaging Options	EDR, TRF, Fast, ARC	Number of Echoes	1	
	Phase	1.40	TR	1500.0	
	SCAN RANGE		Echo Train Length	9	
	FOV	15.0	Receiver Bandwidth	27.78	
	Slice Thickness	3.00	IMAGE ENHANCE		
	Slice Spacing	0.3	Filter Choice	None	
	Overlap Locations	0	USER CVS		
	Number of Slices	20	User CV12	1.00	
	ACQ TIMING		User CV19	1.00	
	Freq	320	TR Min	1500.0	
	Phase	288	TR Max	3500.0	
	Freq DIR	S/I	User CV30	1.00	
ES.	Fat Shift DIR	Normal (S)	User CV39	1.00	FS
PD F	NEX	1.00	User CV Mask2	256	
A P	Phase FOV	1.00	MULTI-PHASE		<u>Д</u>
COR	Auto Shim	Auto	Seperate Series	0	Ö
0 -	Phase Correction	Yes	Mask Phase	0	0
FS - (RF Drive Mode	Single	Mask Pause	0	FS
PD	Excitation Mode	Selective	Preserve	0	Q
COR	FMRI		DIFFUSION		COR PD FS - COR PD
\mathcal{S}	PSD Trigger	Internal	Recon All Images	On	8
	View Order	Bottom/Up	# Synthetic b-values	1	
	# of Repetitions REST	0	Synthetic b-value	1000.0;	
	# of Repetitions ACTIVE	0	-	7000.0,	
	SAT		CONTRAST	A/-	
	SAT Location	R	Contrast Yes/No	No	
	SAT Location	L			
	SAT Location	1			
	Tag Type	None			
	Fat/Water Saturation	Fat Classic			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	2			

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	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	2D	Flip Angle	160	
	Pulse Sequence	FSE-XL	TE	68.0	
	Imaging Options	EDR, TRF, Fast, ARC	Number of Echoes	1	
	Phase	1.00	TR	4318.0	
	SCAN RANGE		Echo Train Length	15	
	FOV	15.0	Receiver Bandwidth	27.78	
	Slice Thickness	3.00	IMAGE ENHANCE		
	Slice Spacing	0.3	Filter Choice	None	
	Overlap Locations	0	USER CVS		
	Number of Slices	20	User CV12	1.00	
	ACQ TIMING		User CV19	1.00	
	Freq	320	TR Min	3000.0	
	Phase	288	TR Max	6000.0	
	Freq DIR	S/I	User CV30	1.00	
SH	Fat Shift DIR	Normal (S)	User CV39	1.00	FS
	NEX	1.00	User CV Mask2	256	2 F
FS - COR T2	Phase FOV	1.00	MULTI-PHASE		⊢
S	Auto Shim	Auto	Seperate Series	0	- g
) - 0	Phase Correction	Yes	Mask Phase	0	-
E.	RF Drive Mode	Single	Mask Pause	0	82
T2	Excitation Mode	Selective	Preserve	0	T2
COR T2	FMRI		DIFFUSION		COR T2 FS - COR T2
Ö	PSD Trigger	Internal	Recon All Images	On	Ö
	View Order	Bottom/Up	# Synthetic b-values	1	
	# of Repetitions REST	0	Synthetic b-value	1000.0;	
	# of Repetitions ACTIVE	0	CONTRAST	,	
	SAT		Contrast Yes/No	No	
	SAT Location	R	Contrast Tes/No	740	
	SAT Location	L			
	SAT Location	1			
	Tag Type	None			
	Fat/Water Saturation	Fat Classic			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	2			

	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	2D	Flip Angle	160	
	Pulse Sequence	FSE-XL	TE	Min Full	
	Imaging Options	EDR, TRF, Fast, ARC	Number of Echoes	1	
	Phase	2.00	TR	584.0	
	SCAN RANGE		Echo Train Length	4	
	FOV	15.0	Receiver Bandwidth	35.71	
	Slice Thickness	3.00	IMAGE ENHANCE		
	Slice Spacing	0.0	Filter Choice	None	
	Overlap Locations	0	USER CVS		
	Number of Slices	24	User CV12	1.00	
	ACQ TIMING		TR Min	400.0	
	Freq	320	TR Max	600.0	
	Phase	320	User CV30	1.00	
	Freq DIR	S/I	User CV39	1.00	
<u>~</u>	Fat Shift DIR	Normal (I)	User CV Mask2	256	5
T1	NEX	1.00	MULTI-PHASE		Ţ
SAG	Phase FOV	1.00	Seperate Series	0	T1 - SAG
Ś	Auto Shim	Auto	Mask Phase	0	S)
Σ	Phase Correction	Yes	Mask Pause	0	F
	RF Drive Mode	Single	Preserve	0	
SAG	Excitation Mode	Selective			SAG
0,	FMRI		DIFFUSION Been All Images	On	0,
	PSD Trigger	Internal	Recon All Images # Synthetic b-values	0n 1	
	View Order	Bottom/Up	Synthetic b-value	1000.0;	
	# of Repetitions REST	0		7000.0,	
	# of Repetitions ACTIVE	0	CONTRAST		
	SAT		Contrast Yes/No	No	
	SAT Location	R			
	SAT Location	L			
	SAT Location	1			
	Tag Type	None			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	2			

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	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	2D	Flip Angle	160	
	Pulse Sequence	FSE-XL	TE	68.0	
	Imaging Options	EDR, TRF, Fast, ARC	Number of Echoes	1	
	Phase	1.50	TR	2107.0	
	SCAN RANGE		Echo Train Length	12	
	FOV	15.0	Receiver Bandwidth	27.78	
	Slice Thickness	3.00	IMAGE ENHANCE		
	Slice Spacing	0.0	Filter Choice	None	
	Overlap Locations	0	USER CVS		
	Number of Slices	24	User CV12	1.00	
	ACQ TIMING		User CV19	1.00	
	Freq	320	TR Min	1500.0	
	Phase	288	TR Max	6000.0	
	Freq DIR	S/I	User CV30	1.00	
40	Fat Shift DIR	Normal (I)	User CV39	1.00	40
FS	NEX	1.00	User CV Mask2	256	FS
Sag T2	Phase FOV	1.00	MULTI-PHASE		- Sag T2
ag	Auto Shim	Auto	Seperate Series	0	ag
100	Phase Correction	Yes	Mask Phase	0	0)
S	RF Drive Mode	Single	Mask Pause	0	FS
T2	Excitation Mode	Selective	Preserve	0	T2
Sag T2	FMRI		DIFFUSION	•	Sag T2
U	PSD Trigger	Internal	Recon All Images	On	0)
	View Order	Bottom/Up	# Synthetic b-values	1	
	# of Repetitions REST	0	Synthetic b-value	1000.0;	
	# of Repetitions ACTIVE	0	,	7000.0,	
	SAT		CONTRAST Contrast Yes/No	N/-	
	SAT Location	R	Contrast Yes/No	No	
	SAT Location	L			
	SAT Location	1			
	Tag Type	None			
	Fat/Water Saturation	Fat Classic			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	2			
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Protocol: adult_upperExtremities_MSK ARDL 2022 -SHOULDER ARDL

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	IMAGING PARAMETERS		SCAN TIMING	
	Imaging Mode	3D	Flip Angle	2
	Pulse Sequence	SPGR	Number of Echoes	
	Imaging Options	Fast, SqP	Receiver Bandwidth	,
	PSD Name	ozteo	IMAGE ENHANCE	ı
	SCAN RANGE		Filter Choice	-
	FOV	21.0	GATING/TRIGGER	i
	Slice Thickness	1.10	Pause After Navigator	_
	Overlap Locations	0	Prescan	•
	Number of Slices	1	FMRI	ı
Ф	ACQ TIMING		PSD Trigger	7
Bone	Freq	200	View Order	ı
2	Freq DIR	R/L	# of Repetitions REST	(
Σ.	NEX	8.00	# of Repetitions ACTIVE	
Ó	Auto Shim	Auto	SAT	
all F	Phase Correction	No	Tag Type	7
Sma	RF Drive Mode	Single	5 7.	
3X	Excitation Mode	Selective	TRICKS	
- 6	Spokes Per Segment	384	Pause On/Off Auto Subtract	
one	USER CVS		Auto SCIC	
ax Small FOV MR Bone - ax Small FOV MR	User CV Mask2	0	Auto Gold	
N N	MULTI-PHASE			
0	Seperate Series	0		
all	Mask Phase	0		
Sms	Mask Pause	0		
ax 8	Preserve	0		
	DIFFUSION			
	Recon All Images	On		
	# Synthetic b-values	1		
	Synthetic b-value	1000.0;		
	CONTRAST			
	Contrast Yes/No	No		
				_

SCAN TIMING	
Flip Angle	2
Number of Echoes	1
Receiver Bandwidth	50.00
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Pause After Navigator Prescan	0
FMRI	
PSD Trigger	Internal
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	3

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