Protocol: adult_upperExtremities_MSK ARDL 2022-Wrist (L&B)/Infection

	otocon adan_appo.	
	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	Seq, Fast
	SCAN RANGE	
	FOV	28.0
	Slice Thickness	5.00
	Slice Spacing	5.0
	Overlap Locations	0
	ACQ TIMING	
	Freq	256
	Phase	128
ght	Freq DIR	Unswap
Ŗ,	NEX	1.00
20	Phase FOV	1.00
Je L	Auto Shim	Auto
lar	Phase Correction	No
3-F	RF Drive Mode	Single
t-	Excitation Mode	Selective
3-Plane Loc Right - 3-Plane Loc Right	USER CVS	
၁၀	User CV20	1.00
e L	User CV Mask2	0
lan	MULTI-PHASE	
3-P	Seperate Series	0
	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

2022-VVIIST (LQD)/III	16CHOH
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	
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off

3-Plane Loc Right - 3-Plane Loc Right

	IMAGING PARAMETERS		SCAN RANGE		
	Imaging Mode	2D	FOV	28.0	
	Pulse Sequence	Gradient Echo	Slice Thickness	5.0	
	Imaging Options	Seq, Fast	Slice Spacing	5.0	
	IMAGE ENHANCE		ACQ TIMING		
	Filter Choice	None	Freq	256	
	GATING/TRIGGER		Phase	128	
	Auto Trigger Type	Off	Freq DIR	Unswap	
eft	Pause After Navigator	0	NEX	1.00	Left
c L	Prescan	·	Phase FOV	1.00	
2	FMRI		Auto Shim	Auto	Loc
3-Plane Loc Left	PSD Trigger	Internal	Phase Correction	No	3-Plane
Pla	Slice Order	Interleaved	RF Drive Mode	Single	급
-3-	View Order	Bottom/Up	Excitation Mode	Selective	က်
eft	# of Repetitions REST	0	USER CVS		Left
3-Plane Loc Left -	# of Repetitions ACTIVE	0	User CV Mask2	0	T oc
e L	SAT		MULTI-PHASE		3-Plane Loc
lan	Tag Type	None	Seperate Series	0	lan
3-Р	TRICKS		Mask Phase	0	3-P
	Pause On/Off	On	Mask Pause	0	
	Auto Subtract	0	DIFFUSION		
	Auto SCIC	Off	Recon All Images	On	
			CONTRAST		
			Contrast Yes/No	No	

		
	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	Seq, Fast
	SCAN RANGE	
	FOV	27.0
	Slice Thickness	5.0
	Slice Spacing	5.0
	Number of Slices	21
	ACQ TIMING	
	Freq	256
	Phase	128
6	Freq DIR	Unswap
7	NEX	1.00
1AI	Phase FOV	1.00
S	Auto Shim	Auto
00	Phase Correction	No
Ė	RF Drive Mode	Single
3Р	Excitation Mode	Selective
>	USER CVS	
L fo	User CV Mask2	0
3PL LOC SMALL fov - 3PL LOC SMALL fov	MULTI-PHASE	
S	Seperate Series	0
၁င	Mask Phase	0
ĭ	Mask Pause	0
3PI	Preserve	0
	DIFFUSION	
	Recon All Images	On
	Multi b-values	1000.0;
	Multi NEX Values	1;
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

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

	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	501.0	
	SCAN RANGE		Echo Train Length	4	
	FOV	12.0	Receiver Bandwidth	31.25	
	Slice Thickness	3.00	IMAGE ENHANCE		
	Slice Spacing	0.5	Filter Choice	None	
	Overlap Locations	0	USER CVS		
	Number of Slices	32	User CV9	1.00	
	ACQ TIMING		User CV12	1.00	
	Freq	288	TR Min	300.0	
	Phase	288	TR Max	750.0	
	Freq DIR	A/P	User CV30	1.00	
	Fat Shift DIR	Normal (A)	User CV39	1.00	
È	NEX	1.00	User CV Mask2	256	¥ ×
- AX T1	Phase FOV	1.00	MULTI-PHASE		
	Auto Shim	Auto	Seperate Series	0	
AX T1	Phase Correction	Yes	Mask Phase	0	AX T1
3	RF Drive Mode	Single	Mask Pause	0	A
	Excitation Mode	Selective	Preserve	0	
	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	S	Commust Tesmo	740	
	SAT Location	1			
	Tag Type	None			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	2			

	IMAGING PARAMETERS			SCAN TIMING
	Imaging Mode	2D	Flip Ar	ngle
	Pulse Sequence	FSE-XL	TE	
	Imaging Options	EDR, TRF, Fast	Number of Echo	es
	SCAN RANGE		TR	
	FOV	14.0	Echo Train Length	
	Slice Thickness	3.00	Receiver Bandwidth	1
	Slice Spacing	0.5	IMAGE ENHANCE	
	Overlap Locations	0	Filter Choice	
	Number of Slices	58	USER CVS	
	ACQ TIMING		User CV12	
	Freq	256	User CV19	
	Phase	224	User CV21	
	Freq DIR	R/L	TR Min	
	Fat Shift DIR	Normal (L)	TR Max	
2	NEX	2.00	User CV30	
	# of Acq. Before Pause	0	User CV39	
7	Phase FOV	0.70	User CV Mask2	
2	Auto Shim	Auto	MULTI-PHASE	
)	Phase Correction	Yes	Seperate Series	
171 \	RF Drive Mode	Single	Mask Phase	
<	Excitation Mode	Selective	Mask Pause	
	FMRI		Preserve	
	PSD Trigger	Internal	DIFFUSION	
	View Order	Bottom/Up	Recon All Images	
	# of Repetitions REST	0	# Synthetic b-values	
	# of Repetitions ACTIVE	0	Synthetic b-value	
	SAT		TRACKER	
	Tag Type	None	Tracker Length	
	Fat/Water Saturation	Fat Classic	Tracker Thickness	
	TRICKS		Hacker Hilloniess	
	Pause On/Off	On		
	Auto Subtract	0		
	Auto SCIC	2		
	CONTRAST			
	Contrast Yes/No	No		

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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	Number of Echoes	1	
	SCAN RANGE		TR	6707.0	
	FOV	16.0	Echo Train Length	20	
	Slice Thickness	3.0	Receiver Bandwidth	22.73	
	Slice Spacing	0.5	IMAGE ENHANCE		
	Number of Slices	58	Filter Choice	None	
	ACQ TIMING		GATING/TRIGGER		
	Freq	256	Auto Trigger Type	Off	
	Phase	192	FMRI		
	Freq DIR	R/L	PSD Trigger	Internal	
	Fat Shift DIR	Normal (L)	View Order	Bottom/Up	
	NEX	3.00	# of Repetitions REST	0	
1	# of Acq. Before Pause	0	# of Repetitions ACTIVE	0	1
it is	Phase FOV	0.70	SAT		it is
ē	Auto Shim	Auto	Tag Type	None	<u>e</u>
vhe	Phase Correction	Yes	Fat/Water Saturation	Fat Classic	vhe
o S	RF Drive Mode	Single		. a. c.acc.e	o g
di	Excitation Mode	Selective	TRICKS	On.	Jdin
per	USER CVS		Pause On/Off Auto Subtract	On O	per
qe	User CV19	1.00	Auto SCIC	Off	qe
	User CV21	1.00		OII	
<u>8</u> .	TR Min	3000.0	CONTRAST		<u></u> S
. =	TR Max	10000.0	Contrast Yes/No	No	. <u>=</u>
Jer	User CV30	1.00			Jer
×	User CV39	1.00			×
depending where it isdepending where it is	User CV Mask2	256			depending where it isdepending where it is-
enc	MULTI-PHASE				enc
deb	Seperate Series	0			deb
ĭ	Mask Phase	0			Ĭ
	Mask Pause	0			
	Preserve	0			
	DIFFUSION				
	Recon All Images	On			
	Multi b-values	1000.0;			
	Multi NEX Values	1;			
	# Synthetic b-values	1			
	Synthetic b-value	1000.0;			
	TRACKER		I		
	Tracker Length	200.0			
	Tracker Thickness	20.0			

	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode Pulse Sequence Imaging Options	2D FSE-XL EDR, TRF, Fast	Flip Angle TE Number of Echoes	160 Min Full 1	
		EDK, TKF, Fasi	TR	450.0	
	FOV Slice Thickness	14.0 2.50	Echo Train Length Receiver Bandwidth	4 31.25	
	Slice Spacing Overlap Locations Number of Slices	0.5 0 17	IMAGE ENHANCE Filter Choice	None	
7	ACQ TIMING Freq Phase Freq DIR Fat Shift DIR	352 288 S/I Normal (I)	USER CVS User CV9 User CV12 User CV30 User CV39 User CV Mask2	1.00 1.00 1.00 1.00 256	T1
R T1 - Sag/COR T1	NEX Phase FOV Auto Shim Phase Correction RF Drive Mode	1.00 1.00 Auto Yes Single	MULTI-PHASE Seperate Series Mask Phase Mask Pause Preserve	0 0 0 0	Sad/COR T1 - Sad/COR T1
Sag/COR T1	Excitation Mode FMRI	Selective	DIFFUSION	On	00/0
Se	PSD Trigger View Order	Internal Bottom/Up 0	Recon All Images # Synthetic b-values Synthetic b-value	On 1 1000.0;	ů.
	# of Repetitions REST # of Repetitions ACTIVE	0	CONTRAST Contrast Yes/No	No	
	SAT SAT Location SAT Location Tag Type	S I None			
	TRICKS				
	Pause On/Off Auto Subtract Auto SCIC	On 0 2			

		_			
	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	2D	Flip Angle	160	
	Pulse Sequence	FSE-XL	TE	68.0	
	Imaging Options	EDR, TRF, Fast	Number of Echoes	1	
	SCAN RANGE		TR	6707.0	
	FOV	14.0	Echo Train Length	20	
	Slice Thickness	3.00	Receiver Bandwidth	25.00	
	Slice Spacing	0.5	IMAGE ENHANCE		
	Overlap Locations	0	Filter Choice	None	
	ACQ TIMING		USER CVS		
	Freq	256	User CV12	1.00	
	Phase	224	User CV19	1.00	
	Freq DIR	S/I	User CV21	1.00	
FS	Fat Shift DIR	Normal (I)	TR Min	3000.0	FS
T2	NEX	2.00	TR Max	10000.0	T2
	Phase FOV	1.00	User CV30	1.00	K.
ΰ	Auto Shim	Auto	User CV39	1.00	Ş
- Sag/COR	Phase Correction	Yes	User CV Mask2	256	Sag
1	RF Drive Mode	Single	MULTI-PHASE		FS - Sag/COR
FS	Excitation Mode	Selective	Seperate Series	0	
Sag/COR T2	FMRI		Mask Phase	0	Sag/COR T2
SR	PSD Trigger	Internal	Mask Pause	0	SR
ŏ	View Order	Bottom/Up	Preserve	0	ŏ
Sac	# of Repetitions REST	0	DIFFUSION		Sag
	# of Repetitions ACTIVE	0	Recon All Images	On	
	SAT		# Synthetic b-values	1	
	Tag Type	None	Synthetic b-value	1000.0;	
	Fat/Water Saturation	Fat Classic	TRACKER		
	TRICKS		Tracker Length	200.0	
	Pause On/Off	On	Tracker Thickness	20.0	
	Auto Subtract	0			
	Auto SCIC	2			
	CONTRAST				
	Contrast Yes/No	No			

Protocol: adult_upperExtremities_MSK ARDL 2022-Wrist (L&B)/Infection

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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	Number of Echoes 1
			TR 6707.0
	SCAN RANGE	10.0	Echo Train Length 20
	FOV	16.0	Receiver Bandwidth 22.73
	Slice Thickness	3.0	
	Slice Spacing	0.5	IMAGE ENHANCE
	ACQ TIMING		Filter Choice None
	Freq	256	GATING/TRIGGER
	Phase	192	Auto Trigger Type Off
	Freq DIR	S/I	FMRI
	Fat Shift DIR	Normal (I)	PSD Trigger Internal
	NEX	3.00	View Order Bottom/Up
	Phase FOV	0.70	# of Repetitions REST 0
	Auto Shim	Auto	# of Repetitions ACTIVE 0
1	Phase Correction	Yes	·
gec	RF Drive Mode	Single	SAT
ee	Excitation Mode	Selective	Tag Type None Fat/Water Saturation Fat Classic
if gad neededif gad needed	USER CVS		
g	User CV19	1.00	TRICKS
Ť	User CV21	1.00	Pause On/Off On
	TR Min	3000.0	Auto Subtract 0
) Sec	TR Max	10000.0	Auto SCIC Off
eec	User CV30	1.00	CONTRAST
d D	User CV39	1.00	Contrast Yes/No No
ga	User CV Mask2	256	
<u>.</u>	MULTI-PHASE		
	Seperate Series	0	
	Mask Phase	0	
	Mask Pause	0	
	Preserve	0	
	DIFFUSION		
	Recon All Images	On	_
	Multi b-values	1000.0;	
	Multi NEX Values	1;	
	# Synthetic b-values	1	
	Synthetic b-value	1000.0;	
	TRACKER	,	
	Tracker Length	200.0	_
	Tracker Length Tracker Thickness	200.0	
	Tracker THICKHESS	20.0	

--if gad needed-- - --if gad needed--

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	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	652.0	
	SCAN RANGE	RANGE	Echo Train Length	4	
	FOV	12.0	Receiver Bandwidth	31.25	
	Slice Thickness	3.00	IMAGE ENHANCE		
	Slice Spacing	0.5	Filter Choice	None	
	Overlap Locations	0	USER CVS		
	Number of Slices	32	User CV9	1.00	
	ACQ TIMING		User CV12	1.00	
	Freq	320	User CV19	1.00	
	Phase	256	TR Min	300.0	
O	Freq DIR	A/P	TR Max	750.0	ပ
FS + (Fat Shift DIR	Normal (A)	User CV30	1.00	+
	NEX	1.00	User CV39	1.00	T1 FS
7	Phase FOV	1.00	User CV Mask2	256	
AX T1	Auto Shim	Auto	MULTI-PHASE		AX T1 FS + C - AX T1
C - 1	Phase Correction	Yes	Seperate Series	0	Ċ
+	RF Drive Mode	Single	Mask Phase	0	+
FS + (Excitation Mode	Selective	Mask Pause	0	FS
ī	FMRI		Preserve	0	Σ
AX T1	PSD Trigger	Internal	DIFFUSION	•	×
1	View Order	Bottom/Up	Recon All Images	On	
	# of Repetitions REST	0	# Synthetic b-values	1	
	# of Repetitions ACTIVE	0	Synthetic b-value	1000.0;	
	SAT		,	1000.0,	-
	SAT Location	S	CONTRAST		
	SAT Location	1	Contrast Yes/No	Yes	
	Tag Type	None			
	Fat/Water Saturation	Fat Classic			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	Off			
					

			DE 2022 Wilst (EQB)/IIII		
	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	2D	Flip Angle	160	
	Pulse Sequence	FSE-XL	TE TE	Min Full	
	Imaging Options	EDR, TRF, Fast, ARC	Number of Echoes	1	
	Phase	2.00	TR	653.0	
	CCAN DANCE		Echo Train Length	4	
	SCAN RANGE FOV	12.0	Receiver Bandwidth	31.25	
	Slice Thickness	3.0	IMAGE ENHANCE		
	Slice Spacing	0.5	Filter Choice	A	
	Number of Slices	32		A	
		32	GATING/TRIGGER		
	ACQ TIMING		Auto Trigger Type	Off	
	Freq	320	FMRI		
	Phase	256	PSD Trigger	Internal	
	Freq DIR	A/P	View Order	Bottom/Up	
	Fat Shift DIR	Normal (A)	# of Repetitions REST	0	
	NEX	1.00	# of Repetitions ACTIVE	0	
	# of Acq. Before Pause	0	SAT		
	Auto Shim	Auto	SAT Location	S	
1	Phase Correction	Yes	SAT Location	l	1
ion	RF Drive Mode	Single	Tag Type	None	ioi
ect	Excitation Mode	Selective	Fat/Water Saturation	Fat Classic	ect
if infectionif infection	USER CVS				if infectionif infection
Ŧ	User CV7	1.00	TRICKS	0.5	ΙŢ
į	User CV9	1.00	Pause On/Off Auto Subtract	On O	į
tior	User CV17	1.00	Auto SCIC	Off	tio
fec	User CV19	1.00	Auto SCIC	OII	fec
f in	TR Min	300.0			f.
T	TR Max	750.0			T
	User CV30	1.00			
	User CV39	1.00			
	User CV Mask2	256			
	MULTI-PHASE				
	Seperate Series	0			
	Mask Phase	0			
	Mask Pause	0			
	Preserve	0			
	DIFFUSION				
	Recon All Images	On			
	Multi b-values	1000.0;			
	Multi NEX Values	1;			
	# Synthetic b-values	1			
	Synthetic b-value	1000.0;			
	CONTRAST				
	Contrast Yes/No	Yes			

	= 11	=	DE LOZZ WHOT (Lab)/III		
	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	652.0	
	SCAN RANGE		Echo Train Length	4	
	FOV	12.0	Receiver Bandwidth	31.25	
	Slice Thickness	3.00	IMAGE ENHANCE		
	Slice Spacing	0.5	Filter Choice	None	
	Overlap Locations	0	USER CVS		
	Number of Slices	32	User CV9	1.00	
	ACQ TIMING		User CV12	1.00	
	Freq	320	User CV19	1.00	
	Phase	256	TR Min	300.0	
O	Freq DIR	A/P	TR Max	750.0	ပ
FS + (Fat Shift DIR	Normal (A)	User CV30	1.00	+
	NEX	1.00	User CV39	1.00	ES.
7	Phase FOV	1.00	User CV Mask2	256	7
AX T1	Auto Shim	Auto	MULTI-PHASE		AX T1 FS + C - AX T1
C-,	Phase Correction	Yes	Seperate Series	0	
+	RF Drive Mode	Single	Mask Phase	0	+
FS + (Excitation Mode	Selective	Mask Pause	0	RS
Ξ	FMRI		Preserve	0	\sqsubset
AX T1	PSD Trigger	Internal	DIFFUSION		×
	View Order	Bottom/Up	Recon All Images	On	
	# of Repetitions REST	0	# Synthetic b-values	1	
	# of Repetitions ACTIVE	0	Synthetic b-value	1000.0;	
	SAT			1000.0,	-
	SAT Location	S	CONTRAST	V	
	SAT Location	1	Contrast Yes/No	Yes	
	Tag Type	None			
	Fat/Water Saturation	Fat Classic			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	Off			

IMAGING PARAM	-	SCAN TIMING
Imaging Mode	2D	Flip Angle
Pulse Sequence	FSE-XL	TE
Imaging Options	EDR, TRF, Fast	Number of Echoes
SCAN RANGE		TR
FOV	12.0	Echo Train Length
Slice Thickness	2.50	Receiver Bandwidth
Slice Spacing	0.5	IMAGE ENHANCE
Overlap Location		Filter Choice
Number of Slices	17	USER CVS
ACQ TIMING		User CV9
Freq	352	User CV12
Phase	224	User CV19
Freq DIR	S/I	User CV30
Fat Shift DIR	Normal (I)	User CV39
NEX	1.00	User CV Mask2
Phase FOV	1.00	
Auto Shim	Auto	MULTI-PHASE
Phase Correction		Seperate Series
RF Drive Mode	Single	Mask Phase
NEX Phase FOV Auto Shim Phase Correction RF Drive Mode Excitation Mode	Selective	Mask Pause
FMRI		Preserve
	Internal	DIFFUSION
		Recon All Images
# of Popotitions	Bottom/Up	# Synthetic b-values
View Order # of Repetitions R # of Repetitions A		Synthetic b-value
# Of Repetitions A	CIIVE U	CONTRAST
SAI		Contrast Yes/No
SAT Location	S	
SAT Location	1	
Tag Type	None	
Fat/Water Saturat	ion Fat Classic	
TRICKS		
Pause On/Off	On	
Auto Subtract	0	
Auto SCIC	Off	