	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	2D	TE	Minimum	
	Pulse Sequence	Spin Echo	Number of Echoes	1	
	Imaging Options	Seq, EDR, Fast, SS, ARC	TR	Minimum	
	Phase	2.00	Receiver Bandwidth	Receiver Bandwidth 83.33	
	SCAN RANGE		IMAGE ENHANCE		
	FOV	24.0	Filter Choice	None	
	Slice Thickness	3.00	USER CVS		
	Slice Spacing	0.0	User CV1	1.00	
	Overlap Locations	0	User CV2	240.00	
	ACQ TIMING		User CV13	1.00	
	Freq	256	User CV Mask2	0	
	Phase	256	MULTI-PHASE		
	Freq DIR	Unswap	Seperate Series	0	
	# of Acq. Before Pause	0	Mask Phase	0	
	Phase FOV	1.00	Mask Pause	0	
	Auto Shim	Auto	Preserve	0	
er	Phase Correction	No			e
aliz	RF Drive Mode	Quadrature (CP)	DIFFUSION		aliz
Ö	Excitation Mode	Selective	Optimized TE	Yes	ö
Localizer - Localizer	FMRI		Recon All Images # Synthetic b-values	On 1	Localizer - Localizer
ize	PSD Trigger	Internal	Synthetic b-value	1000.0;	ize
cal	View Order	Bottom/Up		1000.0,	cal
L	# of Repetitions REST	0	CONTRAST		L
	# of Repetitions ACTIVE	0	Contrast Yes/No	No	
	SAT				
	Tag Type	None			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	Off			
	OTHERS				
	Protocol Notes	Please use bellow and plethesmograph Must have respiratory and heart rate monitored using GE components and accessories. Before positioning, give subject fMRI instructions Ensure that the entire brain is covered			

	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	3D	Flip Angle	10.0	
	Pulse Sequence	Gradient Echo	Number of Echoes	2	
	Imaging Options	EDR, Fast, ARC	TR	Minimum	
	PSD Name	3db0map_hos	Receiver Bandwidth	31.25	
	Phase	2.00	IMAGE ENHANCE		
	SCAN RANGE		Filter Choice	None	
	FOV	24.0	USER CVS		
	Slice Thickness	5.80	User CV30	1.00	
	Location per Slab	32	User CV34	100.00	
	Overlap Locations	0	User CV Mask2	8	
	Number of Slices	1	MIII TI DUACE	_	
	ACQ TIMING		MULTI-PHASE Seperate Series	0	
	Freq	64	Mask Phase	0	
Ε	Phase	64	Mask Pause	0	Ε
Shim	Freq DIR	R/L	Preserve	0	Shii
-	Phase FOV	1.00			Shim - Shim
Shim -	Auto Shim	Auto	DIFFUSION		hir
S	Phase Correction	No	Recon All Images	On	S
	RF Drive Mode	Preset	# Synthetic b-values	1	
	Excitation Mode	Selective	Synthetic b-value	1000.0;	
	FMRI		CONTRAST		
	PSD Trigger	Internal	Contrast Yes/No	No	
	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			
					

	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	3D	TE	Maximum	
	Pulse Sequence	Cube	Number of Echoes	1	
	Imaging Options	EDR, Fast, ZIP512, FR,	TR	2500.0	
	Dhasa	ARC, PROMO	Echo Train Length	120	
	Phase Slice	2.00 1.00	Receiver Bandwidth	125.00	
		1.00	IMAGE ENHANCE		
	SCAN RANGE		Filter Choice	None	
	FOV	25.6	USER CVS		
	Slice Thickness	0.80	User CV29	1.00	
	Location per Slab	216	User CV30	1.00	
	Overlap Locations	0	User CV34	100.00	
	ACQ TIMING		User CV Mask2	10	
	Freq	320	MULTI-PHASE		
T2 Anatomy - T2 Anatomy	Phase	320	Seperate Series	0	T2 Anatomy - T2 Anatomy
nato	Freq DIR	S/I	Mask Phase	0	nato
A	Fat Shift DIR	Normal (S)	Mask Pause	0	Ā
_T2	NEX	1.00	Preserve	0	
- ك	Phase FOV	1.00			- كر
ton	Auto Shim	Off	DIFFUSION		ton
۱na	Phase Correction	No	Optimized TE	Yes	۱na
.2 F	RF Drive Mode	Preset	Recon All Images	On	.2 F
Н	Excitation Mode	Selective	# Synthetic b-values	1	Н
	FMRI		Synthetic b-value	1000.0;	
	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			
		 			

	1 1010001. aaa	it_nead_i aivizi_vioda
	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
	Freq DIR	R/L
01	NEX	1.00
-ur	Phase FOV	1.00
n_6	Auto Shim	Auto
-RS	Phase Correction	Yes
epi	RF Drive Mode	Quadrature (CP)
1 -	Excitation Mode	Selective
epi-RS_run-01 - epi-RS_run-01	USER CVS	
_נו	User CV10	1.00
RS	User CV11	50.00
-id	User CV12	1.00
Э	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	480
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
		0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

SCAN TIMING	
Flip Angle	62.0
TE	30.0
Number of Echoes	1
TR	1000.0
Number of Shots	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
Fat/Water Saturation	Fat
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off

epi-RS_run-01 - epi-RS_run-01

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	20.0
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
_	Freq DIR	R/L
0-ر	NEX	1.00
2	Phase FOV	1.00
ar	Auto Shim	Auto
lod	Phase Correction	Yes
-pe	RF Drive Mode	Quadrature (CP)
i d	Excitation Mode	Selective
epi-pepolar_run-01 - epi-pepolar_run-01		GCICCHIVC
<u></u>	USER CVS	1.00
<u>5</u>	User CV9	1.00
a	User CV10	1.00
lod	User CV11	50.00
be	User CV12	1.00
-ide	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	10
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	•	
	CONTRAST	A.
	Contrast Yes/No	No

SCAN TIMING		
Flip Angle	62.0	
TE	30.0	
Number of Echoes	1	
TR	1000.0	
Number of Shots	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		5
Tag Type	None	Ė
Fat/Water Saturation	Fat	ב" ו
TRICKS		pok
TRICKS Pause On/Off	On	-bebol
	On 0	epi-pepok
Pause On/Off	_	1 - epi-pepok
Pause On/Off Auto Subtract	0	1-01 - epi-pepok
Pause On/Off Auto Subtract	0	run-01 - epi-pepok
Pause On/Off Auto Subtract	0	ar_run-01 - epi-pepok
Pause On/Off Auto Subtract	0	polar_run-01 - epi-pepok
Pause On/Off Auto Subtract	0	pepolar_run-01 - epi-pepol
Pause On/Off Auto Subtract	0	epi-pepolar_run-01 - epi-pepolar_run-01

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	. •	0.0
	Overlap Locations	•
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
2	Freq DIR	R/L
-03	NEX	1.00
ıı	Phase FOV	1.00
S	Auto Shim	Auto
F.	Phase Correction	Yes
ер	RF Drive Mode	Quadrature (CP)
2 -	Excitation Mode	Selective
epi-RS_run-02 - epi-RS_run-02	USER CVS	
<u>=</u>	User CV10	1.00
RS	User CV11	50.00
-id	User CV12	1.00
Ψ.	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	480
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Phase Mask Pause	-
		0
	DIFFUSION	0
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

SCAN TIMING	
Flip Angle	62.0
TE	30.0
Number of Echoes	1
TR	1000.0
Number of Shots	1
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Pause After Navigator Prescan	0
FMRI	
PSD Trigger	Internal
i ob iliggei	Internal
View Order	Bottom/Up
View Order	Bottom/Up
View Order # of Repetitions REST	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT	Bottom/Up 0 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS	Bottom/Up 0 0 None Fat
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS Pause On/Off	Bottom/Up 0 0 None Fat

epi-RS_run-02 - epi-RS_run-02

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0.0
	Number of Slices	56
		30
	ACQ TIMING	00
	Freq	88
	Phase	88
.02	Freq DIR	R/L
in	NEX	1.00
וב	Phase FOV	1.00
eloc	Auto Shim	Auto
dec	Phase Correction	Yes
pi-j	RF Drive Mode	Quadrature (CP)
e e	Excitation Mode	Selective
epi-pepolar_run-02 - epi-pepolar_run-02	USER CVS	
run	User CV9	1.00
<u>_</u> _	User CV10	1.00
Sol	User CV11	50.00
bet	User CV12	1.00
-idé	User CV Mask2	0
Ψ.	MULTI-PHASE	
	Slice per Location	10
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

SCAN TIMING		
Flip Angle	62.0	
TE	30.0	
Number of Echoes	1	
TR	1000.0	
Number of Shots	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		0.5
Tag Type	None	Ġ
Fat/Water Saturation	Fat	֓֞֞֝֟֟֝֟֝ ֚
TRICKS		epi-pepolar_run-02 - epi-pepolar_run-02
Pause On/Off	On	-be
Auto Subtract	0	epi
Auto SCIC	Off	2 - (
		67-ر
		בַּ
		<u>a</u> _
		od
		-pe
		epi

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	•
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
3	Freq DIR	R/L
9-	NEX	1.00
בֿ.	Phase FOV	1.00
S	Auto Shim	Auto
i-F	Phase Correction	Yes
e e	RF Drive Mode	Quadrature (CP)
33 -	Excitation Mode	Selective
epi-RS_run-03 - epi-RS_run-03	USER CVS	
٦	User CV10	1.00
桊	User CV11	50.00
epi	User CV12	1.00
	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	480
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No
	COIILIASL 169/NO	740

SCAN TIMING	
Flip Angle	62.0
TE	30.0
Number of Echoes	1
TR	1000.0
Number of Shots	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
Fat/Water Saturation	Fat
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off

epi-RS_run-03 - epi-RS_run-03

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
3	Freq DIR	R/L
n-0	NEX	1.00
ב	Phase FOV	1.00
lar	Auto Shim	Auto
ode	Phase Correction	Yes
i-pe	RF Drive Mode	Quadrature (CP)
ер	Excitation Mode	Selective
epi-pepolar_run-03 - epi-pepolar_run-03	USER CVS	
ur)-ur	User CV9	1.00
ال	User CV10	1.00
ola	User CV11	50.00
Эер	User CV12	1.00
pi-p	User CV Mask2	0
Ф	MULTI-PHASE	
	Slice per Location	10
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

SCAN TIMING		
Flip Angle	62.0	
TE	30.0	
Number of Echoes	1	
TR	1000.0	
Number of Shots	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		03
Tag Type	None	Ė
Fat/Water Saturation	Fat	يّ
TRICKS		bog
Pause On/Off	On	-pe
Auto Subtract	0	epi.
Auto SCIC	0,11	ĭ
Auto Scic	Off	~
Auto Scic	Oπ	-03
Auto Scio	Off	_run-03
Auto Scie	Off	lar_run-03
Auto Scie	Off	polar_run-03
Auto Scie	Off	-pepolar_run-03
Auto Scie	Off	epi-pepolar_run-03 - epi-pepolar_run-03

	IMAGING PARAMETERS	
	Imaging Mode	2D
		Gradient Echo
	Pulse Sequence	EDR, MPh, EPI, ARC, HB
	Imaging Options PSD Name	
		epigg 1.00
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
_	Freq DIR	R/L
70-	NEX	1.00
ın	Phase FOV	1.00
S	Auto Shim	Auto
-F R	Phase Correction	Yes
ер	RF Drive Mode	Quadrature (CP)
4.	Excitation Mode	Selective
epi-RS_run-04 - epi-RS_run-04	USER CVS	
	User CV10	1.00
Ä	User CV11	50.00
epi	User CV12	1.00
	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	480
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

SCAN TIMING	
Flip Angle	62.0
TE	30.0
Number of Echoes	1
TR	1000.0
Number of Shots	1
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Pause After Navigator Prescan	0
FMRI	
PSD Trigger	Internal
PSD Trigger View Order	Internal Bottom/Up
View Order	Bottom/Up
View Order # of Repetitions REST	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT	Bottom/Up 0 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS	Bottom/Up 0 0 None Fat
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS Pause On/Off	Bottom/Up 0 0 None Fat

epi-RS_run-04 - epi-RS_run-04

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING Freq	88
	Phase	
		88
-04	Freq DIR	R/L
un.	NEX	1.00
<u>ا</u>	Phase FOV Auto Shim	1.00
oole		Auto
beb	Phase Correction	Yes
-id	RF Drive Mode Excitation Mode	Quadrature (CP)
• •	Excitation wode	Selective
-04	USER CVS	
run	User CV9	1.00
ar	User CV10	1.00
oc	User CV11	50.00
bel	User CV12	1.00
epi-pepolar_run-04 - epi-pepolar_run-04	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	10
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No
		-

SCAN TIMING		
Flip Angle	62.0	
TE	30.0	
Number of Echoes	1	
TR	1000.0	
Number of Shots	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		94
SAT Tag Type	None	nn-04
	None Fat	ar_run-04
Tag Type		polar_run-04
Tag Type Fat/Water Saturation		pepolar_run-04
Tag Type Fat/Water Saturation TRICKS	Fat	epi-pepolar_run-04
Tag Type Fat/Water Saturation TRICKS Pause On/Off	Fat On	4 - epi-pepolar_run-04
Tag Type Fat/Water Saturation TRICKS Pause On/Off Auto Subtract	Fat On 0	
Tag Type Fat/Water Saturation TRICKS Pause On/Off Auto Subtract	Fat On 0	run-04 - epi-pepolar_run-04
Tag Type Fat/Water Saturation TRICKS Pause On/Off Auto Subtract	Fat On 0	ar_run-04 - epi-pepolar_run-04
Tag Type Fat/Water Saturation TRICKS Pause On/Off Auto Subtract	Fat On 0	polar_run-04 - epi-pepolar_run-04
Tag Type Fat/Water Saturation TRICKS Pause On/Off Auto Subtract	Fat On 0	-pepolar_run-04 - epi-pepolar_run-04
Tag Type Fat/Water Saturation TRICKS Pause On/Off Auto Subtract	Fat On 0	epi-pepolar_run-04 - epi-pepolar_run-04

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0.0
	Number of Slices	56
	ACQ TIMING	00
	Freq	88
	Phase	88
2	Freq DIR	R/L
n-0	NEX	1.00
Ξ_	Phase FOV	1.00
SS.	Auto Shim	Auto
Pi-F	Phase Correction	Yes
• •	RF Drive Mode	Quadrature (CP)
90	Excitation Mode	Selective
epi-RS_run-05 - epi-RS_run-05	USER CVS	
S	User CV10	1.00
Ř.	User CV11	50.00
ebi	User CV12	1.00
	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	480
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No
	COIILIASE 1 ES/NO	740

SCAN TIMING	
Flip Angle	62.0
TE	30.0
Number of Echoes	1
TR	1000.0
Number of Shots	1
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Pause After Navigator Prescan	0
FMRI	
PSD Trigger	Internal
PSD Trigger View Order	Internal Bottom/Up
View Order	Bottom/Up
View Order # of Repetitions REST	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT	Bottom/Up 0 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS	Bottom/Up 0 0 None Fat
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS Pause On/Off	Bottom/Up 0 0 None Fat

epi-RS_run-05 - epi-RS_run-05

SCAN TIMING

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	7
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
35	Freq DIR	R/L
-ur	NEX	1.00
	Phase FOV	1.00
olar	Auto Shim	Auto
ebc	Phase Correction	Yes
j-p	RF Drive Mode	Quadrature (CP)
de -	Excitation Mode	Selective
epi-pepolar_run-05 - epi-pepolar_run-05	USER CVS	
-un	User CV9	1.00
ׅ֡֡֞֞֞֜֜֡֓֓֡֡֡֡	User CV10	1.00
ola	User CV11	50.00
ep	User CV12	1.00
pi-p	User CV Mask2	0
Ф	MULTI-PHASE	
	Slice per Location	10
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	•	,
	CONTRAST Contrast Yes/No	No
	CONTRAST TES/NO	No

Flip Angle	62.0	
TE	30.0	
Number of Echoes	1	
TR	1000.0	
Number of Shots	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		02
Tag Type	None	Ė
Fat/Water Saturation	Fat	٦
TRICKS		epi-pepolar_run-05 - epi-pepolar_run-05
Pause On/Off	On	-pe
Auto Subtract	0	e jd
Auto SCIC	Off	- 0
		9
		בֿ בֿ
		<u>a</u>
		od
		-pe
		epi

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	00
	Freq	88
	Phase	88
9	Freq DIR	R/L
n-0	NEX	1.00
2	Phase FOV	1.00
SS.	Auto Shim	Auto
pi-id	Phase Correction	Yes
e •	RF Drive Mode	Quadrature (CP)
90.	Excitation Mode	Selective
epi-RS_run-06 - epi-RS_run-06	USER CVS	
S	User CV10	1.00
Ř.	User CV11	50.00
ebi	User CV12	1.00
	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	480
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No
	COIILIASE 1 ES/NO	740

SCAN TIMING	
Flip Angle	62.0
TE	30.0
Number of Echoes	1
TR	1000.0
Number of Shots	1
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Pause After Navigator Prescan	0
FMRI	
PSD Trigger	Internal
PSD Trigger View Order	Internal Bottom/Up
•	
View Order	Bottom/Up
View Order # of Repetitions REST	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT	Bottom/Up 0 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS	Bottom/Up 0 0 None Fat
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS Pause On/Off	Bottom/Up 0 0 None Fat

epi-RS_run-06 - epi-RS_run-06

SCAN TIMING

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
9	Freq DIR	R/L
n-0	NEX	1.00
2	Phase FOV	1.00
lar	Auto Shim	Auto
ode	Phase Correction	Yes
i-pe	RF Drive Mode	Quadrature (CP)
ер	Excitation Mode	Selective
epi-pepolar_run-06 - epi-pepolar_run-06	USER CVS	
'n	User CV9	1.00
ال	User CV10	1.00
ola	User CV11	50.00
ер	User CV12	1.00
pi-p	User CV Mask2	0
Ф	MULTI-PHASE	
	Slice per Location	10
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No
		-

••••		
Flip Angle	62.0	
TE	30.0	
Number of Echoes	1	
TR	1000.0	
Number of Shots	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		90
Tag Type	None	'n
Fat/Water Saturation	Fat	֓֟֝ <u>֚֚</u>
TRICKS		epi-pepolar_run-06 - epi-pepolar_run-06
Pause On/Off	On	pe
Auto Subtract	0	e ide
Auto SCIC	Off	9 - 6
		ο̈́
		Ω
		۳ ا
		Sol
		Sep
		p-i-d
		Φ

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
		7
	SCAN RANGE FOV	22.0
		==
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
	Freq DIR	R/L
0-ر	NEX	1.00
֡֝֞֞֝֝֞֞֝֞֝֟֝֝֟֝ ֚	Phase FOV	1.00
SS	Auto Shim	Auto
두	Phase Correction	Yes
Б	RF Drive Mode	Quadrature (CP)
07	Excitation Mode	Selective
epi-RS_run-07 - epi-RS_run-07	USER CVS	
S	User CV10	1.00
Ϋ́-	User CV11	50.00
epi	User CV12	1.00
	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	480
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

SCAN TIMING	
Flip Angle	62.0
TE	30.0
Number of Echoes	1
TR	1000.0
Number of Shots	1
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Pause After Navigator Prescan	0
FMRI	
PSD Trigger	Internal
PSD Trigger View Order	Internal Bottom/Up
View Order	Bottom/Up
View Order # of Repetitions REST	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE	Bottom/Up 0 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS	Bottom/Up 0 0 None Fat
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS Pause On/Off	Bottom/Up 0 0 None Fat

epi-RS_run-07 - epi-RS_run-07

	IMAGING PARAMETERS		
	Imaging Mode	2D	
	Pulse Sequence	Gradient Echo	
	Imaging Options	EDR, MPh, EPI, ARC, HB	
	PSD Name	epigg	
	Phase	1.00	
	HyperBand Slice	4	
		7	
	SCAN RANGE FOV	22.0	
		22.0	
	Slice Thickness	2.50	
	Slice Spacing	0.0	
	Overlap Locations	0	
	Number of Slices	56	
	ACQ TIMING		
	Freq	88	
	Phase	88	
-07	Freq DIR	R/L	
<u>i</u> n	NEX	1.00	
ار	Phase FOV	1.00	
ole	Auto Shim	Auto	
beb	Phase Correction	Yes	
p-j-	RF Drive Mode	Quadrature (CP)	
Э -	Excitation Mode	Selective	
epi-pepolar_run-07 - epi-pepolar_run-07	USER CVS		
run	User CV9	1.00	
ar	User CV10	1.00	
pod	User CV11	50.00	
þe	User CV12	1.00	
epi-	User CV Mask2	0	
Ū	MULTI-PHASE		
	Slice per Location	10	
	Phase Acquisition Order	Interleaved	
	Delay after Acquisition	Minimum	
	Seperate Series	0	
	Mask Phase	0	
	Mask Pause	0	
	DIFFUSION		
	Recon All Images	On	
	# Synthetic b-values	1	
	Synthetic b-value	1000.0;	
	CONTRAST		
	Contrast Yes/No	No	

SCAN TIMING		
Flip Angle	62.0	
TE	30.0	
Number of Echoes	1	
TR	1000.0	
Number of Shots	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		07
Tag Type	None	- L
Fat/Water Saturation	Fat	اي
TRICKS		epi-pepolar_run-07 - epi-pepolar_run-07
Pause On/Off	On	bel
Auto Subtract	0	-id
Auto SCIC	Off	- (
		-07
		5
		ä
		lod
		be
		-id
		Ψ

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
		7
	SCAN RANGE FOV	22.0
	Slice Thickness	
		2.50
	Slice Spacing	0.0
	Overlap Locations	0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
8	Freq DIR	R/L
٥-ر	NEX	1.00
2	Phase FOV	1.00
SS	Auto Shim	Auto
두	Phase Correction	Yes
<u>е</u>	RF Drive Mode	Quadrature (CP)
08	Excitation Mode	Selective
epi-RS_run-08 - epi-RS_run-08	USER CVS	
S	User CV10	1.00
Ř	User CV11	50.00
ebi	User CV12	1.00
	User CV Mask2	0
	MULTI-PHASE	
	Slice per Location	480
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	
	Contrast Yes/No	No

SCAN TIMING	
Flip Angle	62.0
TE	30.0
Number of Echoes	1
TR	1000.0
Number of Shots	1
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Pause After Navigator Prescan	0
FMRI	
PSD Trigger	Internal
PSD Trigger View Order	Internal Bottom/Up
View Order	Bottom/Up
View Order # of Repetitions REST	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE	Bottom/Up 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT	Bottom/Up 0 0
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation	Bottom/Up 0 0 None
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS	Bottom/Up 0 0 None Fat
View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type Fat/Water Saturation TRICKS Pause On/Off	Bottom/Up 0 0 None Fat

epi-RS_run-08 - epi-RS_run-08

	IMAGING PARAMETERS	
	Imaging Mode	2D
	Pulse Sequence	Gradient Echo
	Imaging Options	EDR, MPh, EPI, ARC, HB
	PSD Name	epigg
	Phase	1.00
	HyperBand Slice	4
	SCAN RANGE	
	FOV	22.0
	Slice Thickness	2.50
	Slice Spacing	0.0
	Overlap Locations	0.0
	Number of Slices	56
	ACQ TIMING	
	Freq	88
	Phase	88
08	Freq DIR	R/L
-un	NEX	1.00
٦	Phase FOV	1.00
ola	Auto Shim	Auto
eb	Phase Correction	Yes
o-ic	RF Drive Mode	Quadrature (CP)
- e	Excitation Mode	Selective
epi-pepolar_run-08 - epi-pepolar_run-08	USER CVS	
ùn.	User CV9	1.00
֝֝֟֝֝֟֝֝ <u>֚</u>	User CV10	1.00
ole	User CV11	50.00
dec	User CV12	1.00
-id	User CV Mask2	0
Ф	MULTI-PHASE	
	Slice per Location	10
	Phase Acquisition Order	Interleaved
	Delay after Acquisition	Minimum
	Seperate Series	0
	Mask Phase	0
	Mask Pause	0
	DIFFUSION	
	Recon All Images	On
	# Synthetic b-values	1
	Synthetic b-value	1000.0;
	CONTRAST	•
	CONTRAST Contrast Yes/No	No
	COMMON TES/NO	No

SCAN TIMING		
Flip Angle	62.0	
TE	30.0	
Number of Echoes	1	
TR	1000.0	
Number of Shots		
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		08
Tag Type	None	Ē
Fat/Water Saturation	Fat	٦
TRICKS		epi-pepolar_run-08 - epi-pepolar_run-08
Pause On/Off	On	þe
Auto Subtract	0	ig
Auto SCIC	Off	3 - (
		30-0
		5
		ä
		lod
		pe
		id

	IMAGING PARAMETERS		SCAN TIMING		
	Imaging Mode	3D	Flip Angle	8.0	
	Pulse Sequence	MP-RAGE	Number of Echoes	1	
	Imaging Options	EDR, Fast, ARC, IrP	ТΙ	1060	
	Phase	2.00	Receiver Bandwidth	31.25	
	Slice	1.00	Recovery Time	400	
	SCAN RANGE		IMAGE ENHANCE		
	FOV	25.6	Filter Choice	None	
	Slice Thickness	0.80	USER CVS		
	Location per Slab	230	User CV6	1.00	1
	Overlap Locations	0	User CV30	1.00	
	Number of Slices	2	User CV Mask2	16896	
	ACQ TIMING		MULTI-PHASE		
<u>a</u>	Freq	256	Seperate Series	0	<u>e</u>
Saç	Phase	256	Trigger Delay without AV	0	Rac
IP I	Freq DIR	S/I	Mask Phase	0	IP.
7	Fat Shift DIR	Reversed (I)	Mask Pause	0	7
	NEX	1.00	Preserve	0	
T1 MPRage - 3D T1 MPRage	# of Acq. Before Pause	0	DIFFUSION	·	3D T1 MPRage - 3D T1 MPRage
ge	Phase FOV	1.00		Yes	ge
Ra	Auto Shim	Auto	Optimized TE		Ra
Ā	Phase Correction	No	Recon All Images Multi b-values	On	Ā
_	RF Drive Mode	Preset		1000.0;	-
3D 1	Excitation Mode	Selective	Multi NEX Values	1.0;	
3	FMRI		# Synthetic b-values Synthetic b-value	1 1000.0;	3
	PSD Trigger	Internal		1000.0,	
	View Order	Bottom/Up	CONTRAST		
	# of Repetitions REST	0	Contrast Yes/No	No	
	# of Repetitions ACTIVE	0			
	SAT				
	Tag Type	None			
	TRICKS				
	Pause On/Off	On			
	Auto Subtract	0			
	Auto SCIC	2			