

Protocol: adult_head_Parvizi_visual_snow_2024_1113

IMAGING PARAMETERS

Imaging Mode	2D
Pulse Sequence	Spin Echo
Imaging Options	Seq, EDR, Fast, SS, ARC
Phase	2.00

SCAN RANGE

FOV	24.0
Slice Thickness	3.00
Slice Spacing	0.0
Overlap Locations	0

ACQ TIMING

Freq	256
Phase	256
Freq DIR	Unswap
# of Acq. Before Pause	0
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	No
RF Drive Mode	Quadrature (CP)
Excitation Mode	Selective

FMRI

PSD Trigger	Internal
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0

SAT

Tag Type	None
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TRICKS

Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off

OTHERS

Protocol Notes	Please use bellow and plethsmograph 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
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SCAN TIMING

TE	Minimum
Number of Echoes	1
TR	Minimum
Receiver Bandwidth	83.33

IMAGE ENHANCE

Filter Choice	None
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USER CVS

User CV1	1.00
User CV2	240.00
User CV13	1.00
User CV Mask2	0

MULTI-PHASE

Seperate Series	0
Mask Phase	0
Mask Pause	0
Preserve	0

DIFFUSION

Optimized TE	Yes
Recon All Images	On
# Synthetic b-values	1
Synthetic b-value	1000.0;

CONTRAST

Contrast Yes/No	No
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Localizer - Localizer

Localizer - Localizer

Protocol: adult_head_Parvizi_visual_snow_2024_1113

Shim - Shim	IMAGING PARAMETERS		SCAN TIMING	
	Imaging Mode	3D	Flip Angle	10
	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	MULTI-PHASE	
	ACQ TIMING		Seperate Series	0
	Freq	64	Mask Phase	0
	Phase	64	Mask Pause	0
	Freq DIR	R/L	Preserve	0
	Phase FOV	1.00	DIFFUSION	
	Auto Shim	Auto	Recon All Images	On
	Phase Correction	No	Multi b-values	1000.0;
	RF Drive Mode	Preset	Multi NEX Values	1.0;
	Excitation Mode	Selective	# Synthetic b-values	1
	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		

Protocol: adult_head_Parvizi_visual_snow_2024_1113

T2 Anatomy - T2 Anatomy

IMAGING PARAMETERS	
Imaging Mode	3D
Pulse Sequence	Cube
Imaging Options	EDR, Fast, ZIP512, FR, ARC, PROMO
Phase	2.00
Slice	1.00
SCAN RANGE	
FOV	25.6
Slice Thickness	0.80
Location per Slab	216
Overlap Locations	0
Number of Slices	1
ACQ TIMING	
Freq	320
Phase	320
Freq DIR	S/I
Fat Shift DIR	Normal (S)
NEX	1.00
Phase FOV	1.00
Auto Shim	Off
Phase Correction	No
RF Drive Mode	Preset
Excitation Mode	Selective
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

SCAN TIMING	
TE	Maximum
Number of Echoes	1
TR	2500.0
Echo Train Length	120
Receiver Bandwidth	125.00
IMAGE ENHANCE	
Filter Choice	None
USER CVS	
User CV29	1.00
User CV30	1.00
User CV34	100.00
User CV Mask2	10
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
Preserve	0
DIFFUSION	
Optimized TE	Yes
Recon All Images	On
# Synthetic b-values	1
Synthetic b-value	1000.0;
CONTRAST	
Contrast Yes/No	No

T2 Anatomy - T2 Anatomy

Protocol: adult_head_Parvizi_visual_snow_2024_1113

3D T1 MPRage - 3D T1 MPRage	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	TI	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
	Overlap Locations	0	User CV30	1.00
	Number of Slices	2	User CV Mask2	16896
	ACQ TIMING		MULTI-PHASE	
	Freq	256	Seperate Series	0
	Phase	256	Trigger Delay without AV	0
	Freq DIR	S/I	Mask Phase	0
	Fat Shift DIR	Reversed (I)	Mask Pause	0
	NEX	1.00	Preserve	0
	# of Acq. Before Pause	0	DIFFUSION	
	Phase FOV	1.00	Optimized TE	Yes
	Auto Shim	Auto	Recon All Images	On
	Phase Correction	No	Multi b-values	1000.0;
	RF Drive Mode	Preset	Multi NEX Values	1.0;
	Excitation Mode	Selective	# Synthetic b-values	1
	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	2		

3D T1 MPRage - 3D T1 MPRage

Protocol: adult_head_Parvizi_visual_snow_2024_1113

IMAGING PARAMETERS

Imaging Mode	2D
Pulse Sequence	Gradient Echo
Imaging Options	EDR, MPh, EPI, ARC, HB
PSD Name	epigg
Phase	1.00
HyperBand Slice	6

SCAN RANGE

FOV	20.8
Slice Thickness	2.00
Slice Spacing	0.0
Overlap Locations	0
Number of Slices	72

ACQ TIMING

Freq	104
Phase	104
Freq DIR	Unswap
NEX	1.00
Phase FOV	1.00
Auto Shim	Off
Phase Correction	Yes
RF Drive Mode	Quadrature (CP)
Excitation Mode	Selective

USER CVS

User CV10	1.00
User CV11	50.00
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
Multi b-values	1000.0;
Multi NEX Values	1.0;
# Synthetic b-values	1
Synthetic b-value	1000.0;

CONTRAST

Contrast Yes/No	No
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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
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GATING/TRIGGER

Pause After Navigator Prescan	0
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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

epi-RS_run-01 - epi-RS_run-01

Protocol: adult_head_Parvizi_visual_snow_2024_1113

IMAGING PARAMETERS

Imaging Mode	2D
Pulse Sequence	Gradient Echo
Imaging Options	EDR, MPh, EPI, ARC, HB
PSD Name	epigg
Phase	1.00
HyperBand Slice	6

SCAN RANGE

FOV	20.8
Slice Thickness	2.00
Slice Spacing	0.0
Overlap Locations	0
Number of Slices	72

ACQ TIMING

Freq	104
Phase	104
Freq DIR	Unswap
NEX	1.00
Phase FOV	1.00
Auto Shim	Off
Phase Correction	Yes
RF Drive Mode	Quadrature (CP)
Excitation Mode	Selective

USER CVS

User CV9	1.00
User CV10	1.00
User CV11	50.00
User CV12	1.00
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
Multi b-values	1000.0;
Multi NEX Values	1.0;
# Synthetic b-values	1
Synthetic b-value	1000.0;

CONTRAST

Contrast Yes/No	No
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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
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GATING/TRIGGER

Pause After Navigator Prescan	0
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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-pepolar_run-01 - epi-pepolar_run-01

epi-pepolar_run-01 - epi-pepolar_run-01

Protocol: adult_head_Parvizi_visual_snow_2024_1113

IMAGING PARAMETERS

Imaging Mode 2D
Pulse Sequence Gradient Echo
Imaging Options EDR, MPh, EPI, ARC, HB
PSD Name epigg
Phase 1.00
HyperBand Slice 6

SCAN RANGE

FOV 20.8
Slice Thickness 2.00
Slice Spacing 0.0
Overlap Locations 0
Number of Slices 72

ACQ TIMING

Freq 104
Phase 104
Freq DIR Unswap
NEX 1.00
Phase FOV 1.00
Auto Shim Off
Phase Correction Yes
RF Drive Mode Quadrature (CP)
Excitation Mode Selective

USER CVS

User CV10 1.00
User CV11 50.00
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 0
Prescan

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-02 - epi-RS_run-02

epi-RS_run-02 - epi-RS_run-02

Protocol: adult_head_Parvizi_visual_snow_2024_1113

IMAGING PARAMETERS

Imaging Mode	2D
Pulse Sequence	Gradient Echo
Imaging Options	EDR, MPh, EPI, ARC, HB
PSD Name	epigg
Phase	1.00
HyperBand Slice	6

SCAN RANGE

FOV	20.8
Slice Thickness	2.00
Slice Spacing	0.0
Overlap Locations	0
Number of Slices	72

ACQ TIMING

Freq	104
Phase	104
Freq DIR	Unswap
NEX	1.00
Phase FOV	1.00
Auto Shim	Off
Phase Correction	Yes
RF Drive Mode	Quadrature (CP)
Excitation Mode	Selective

USER CVS

User CV9	1.00
User CV10	1.00
User CV11	50.00
User CV12	1.00
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
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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
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GATING/TRIGGER

Pause After Navigator Prescan	0
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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-pepolar_run-02 - epi-pepolar_run-02

epi-pepolar_run-02 - epi-pepolar_run-02

Protocol: adult_head_Parvizi_visual_snow_2024_1113

IMAGING PARAMETERS

Imaging Mode	2D
Pulse Sequence	Gradient Echo
Imaging Options	EDR, MPh, EPI, ARC, HB
PSD Name	epigg
Phase	1.00
HyperBand Slice	6

SCAN RANGE

FOV	20.8
Slice Thickness	2.00
Slice Spacing	0.0
Overlap Locations	0
Number of Slices	72

ACQ TIMING

Freq	104
Phase	104
Freq DIR	Unswap
NEX	1.00
Phase FOV	1.00
Auto Shim	Off
Phase Correction	Yes
RF Drive Mode	Quadrature (CP)
Excitation Mode	Selective

USER CVS

User CV10	1.00
User CV11	50.00
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
Multi b-values	1000.0;
Multi NEX Values	1.0;
# Synthetic b-values	1
Synthetic b-value	1000.0;

CONTRAST

Contrast Yes/No	No
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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
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GATING/TRIGGER

Pause After Navigator Prescan	0
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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

epi-RS_run-03 - epi-RS_run-03

Protocol: adult_head_Parvizi_visual_snow_2024_1113

IMAGING PARAMETERS

Imaging Mode	2D
Pulse Sequence	Gradient Echo
Imaging Options	EDR, MPh, EPI, ARC, HB
PSD Name	epigg
Phase	1.00
HyperBand Slice	6

SCAN RANGE

FOV	20.8
Slice Thickness	2.00
Slice Spacing	0.0
Overlap Locations	0
Number of Slices	72

ACQ TIMING

Freq	104
Phase	104
Freq DIR	Unswap
NEX	1.00
Phase FOV	1.00
Auto Shim	Off
Phase Correction	Yes
RF Drive Mode	Quadrature (CP)
Excitation Mode	Selective

USER CVS

User CV9	1.00
User CV10	1.00
User CV11	50.00
User CV12	1.00
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
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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
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GATING/TRIGGER

Pause After Navigator Prescan	0
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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-pepolar_run-03 - epi-pepolar_run-03

epi-pepolar_run-03 - epi-pepolar_run-03

Protocol: adult_head_Parvizi_visual_snow_2024_1113

IMAGING PARAMETERS

Imaging Mode 2D
Pulse Sequence Gradient Echo
Imaging Options EDR, MPh, EPI, ARC, HB
PSD Name epigg
Phase 1.00
HyperBand Slice 6

SCAN RANGE

FOV 20.8
Slice Thickness 2.00
Slice Spacing 0.0
Overlap Locations 0
Number of Slices 72

ACQ TIMING

Freq 104
Phase 104
Freq DIR Unswap
NEX 1.00
Phase FOV 1.00
Auto Shim Off
Phase Correction Yes
RF Drive Mode Quadrature (CP)
Excitation Mode Selective

USER CVS

User CV10 1.00
User CV11 50.00
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 0
Prescan

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-04 - epi-RS_run-04

epi-RS_run-04 - epi-RS_run-04

Protocol: adult_head_Parvizi_visual_snow_2024_1113

IMAGING PARAMETERS

Imaging Mode 2D
Pulse Sequence Gradient Echo
Imaging Options EDR, MPh, EPI, ARC, HB
PSD Name epigg
Phase 1.00
HyperBand Slice 6

SCAN RANGE

FOV 20.8
Slice Thickness 2.00
Slice Spacing 0.0
Overlap Locations 0
Number of Slices 72

ACQ TIMING

Freq 104
Phase 104
Freq DIR Unswap
NEX 1.00
Phase FOV 1.00
Auto Shim Off
Phase Correction Yes
RF Drive Mode Quadrature (CP)
Excitation Mode Selective

USER CVS

User CV9 1.00
User CV10 1.00
User CV11 50.00
User CV12 1.00
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 0
Prescan

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-pepolar_run-04 - epi-pepolar_run-04

epi-pepolar_run-04 - epi-pepolar_run-04