

Protocol: adult_other_ABCD_Scan_Session1

3Plane_Loc_SSFSE	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	Nova 32ch-Brain	Imaging Options	Seq, EDR, Fast, SS, ARC
	Plane	3-PLANE	SCAN RANGE	
	Series Description	3Plane_Loc_SSFSE	FOV	32.0
	SCAN TIMING		Slice Thickness	10.0
	TE	Minimum	Slice Spacing	0.0
	Number of Echoes	1	ACQ TIMING	
	TR	Minimum	Freq	288
	Receiver Bandwidth	83.33	Phase	192
	IMAGE ENHANCE		Freq DIR	Unswap
	Filter Choice	None	# of Acq. Before Pause	0
	GATING/TRIGGER		Phase FOV	1.00
	Auto Trigger Type	Off	Auto Shim	Auto
	FMRI		Phase Correction	No
	PSD Trigger	Internal	USER CVS	
	Slice Order	Interleaved	User CV1	1.00
	View Order	Bottom/Up	User CV2	240.00
	# of Repetitions REST	0	User CV13	1.00
	# of Repetitions ACTIVE	0	MULTI-PHASE	
	SAT		Seperate Series	0
	Tag Type	None	Mask Phase	0
	TRICKS		Mask Pause	0
	Pause On/Off	On	DIFFUSION	
	Auto Subtract	0	Recon All Images	On
	Auto SCIC	Off	CONTRAST	
			Contrast Yes/No	No

3Plane_Loc_SSFSE

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Sag_MPRAGE_T1	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	SPGR
	Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, Fast, IrP, ARC, PROMO
	Plane	SAGITTAL	PSD Name	research/mprage_promo_abcd
	Series Description	Sag_MPRAGE_T1	SCAN RANGE	
	SCAN TIMING		FOV	25.6
	Flip Angle	8	Slice Thickness	1.0
	TE	Min Full	Location per Slab	208
	TI	1060	Overlap Locations	0
	Receiver Bandwidth	31.25	ACQ TIMING	
	IMAGE ENHANCE		Freq	256
	Filter Choice	None	Phase	256
	GATING/TRIGGER		Freq DIR	S/I
	Auto Trigger Type	Off	NEX	1.00
	FMRI		Phase FOV	1.00
	PSD Trigger	Internal	Auto Shim	Auto
	Slice Order	Interleaved	Phase Correction	No
	View Order	Bottom/Up	USER CVS	
	# of Repetitions REST	0	User CV6	1.00
	# of Repetitions ACTIVE	0	User CV8	2.00
SAT		User CV9		32.00
Tag Type		User CV10		24.00
None		User CV23		100.00
TRICKS		User CV24		2500.00
Pause On/Off		MULTI-PHASE		
On		Seperate Series		0
Auto Subtract		Mask Phase		0
0		Mask Pause		0
Auto SCIC		DIFFUSION		
Off		Recon All Images		On
		CONTRAST		
		Contrast Yes/No		No

Sag_MPRAGE_T1

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	Nova 32ch-Brain	Imaging Options	MPh, EPI
Plane	AXIAL	PSD Name	research/ABCD/epi_pepolar
Series Description	rsfMRI_Field_Map	SCAN RANGE	
SCAN TIMING		FOV	21.6
TE	80.0	Slice Thickness	2.4
Number of Echoes	1	Slice Spacing	0.0
TR	7400.0	ACQ TIMING	
Number of Shots	1	Freq	90
IMAGE ENHANCE		Phase	90
Filter Choice	None	Freq DIR	R/L
GATING/TRIGGER		NEX	1.00
Auto Trigger Type	Off	Phase FOV	1.00
FMRI		Auto Shim	Auto
PSD Trigger	Internal	Phase Correction	Yes
Slice Order	Interleaved	USER CVS	
View Order	Bottom/Up	User CV0	1.00
# of Repetitions REST	0	User CV7	1.00
# of Repetitions ACTIVE	0	User CV12	2.00
SAT		User CV13	1.00
Tag Type	None	MULTI-PHASE	
Fat/Water Saturation	Fat	Slice per Location	3
TRICKS		Phase Acquisition Order	Interleaved
Pause On/Off	On	Delay after Acquisition	Minimum
Auto Subtract	0	Seperate Series	0
Auto SCIC	Off	Mask Phase	0
		Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, MPh, EPI, ARC, HB
Plane	AXIAL	PSD Name	research/ABCD/muxepi
Series Description	rsfMRI_Run_#1	SCAN RANGE	
SCAN TIMING		FOV	21.6
Flip Angle	52	Slice Thickness	2.4
TE	30.0	Slice Spacing	0.0
Number of Echoes	1	ACQ TIMING	
TR	800.0	Freq	90
Number of Shots	1	Phase	90
IMAGE ENHANCE		Freq DIR	R/L
Filter Choice	None	NEX	1.00
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	Yes
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV0	1.00
# of Repetitions REST	0	User CV5	1.00
# of Repetitions ACTIVE	0	User CV9	4444.00
SAT		User CV10	1.00
Tag Type	None	User CV12	3.00
Fat/Water Saturation	Fat	User CV18	5000.00
TRICKS		MULTI-PHASE	
Pause On/Off	On	Slice per Location	391
Auto Subtract	0	Phase Acquisition Order	Interleaved
Auto SCIC	Off	Delay after Acquisition	Minimum
		Seperate Series	0
		Delay after Acquisition without AV	0
		Mask Phase	0
		Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, MPh, EPI, ARC, HB
Plane	AXIAL	PSD Name	research/ABCD/muxepi
Series Description	rsfMRI_Run_#2	SCAN RANGE	
SCAN TIMING		FOV	21.6
Flip Angle	52	Slice Thickness	2.4
TE	30.0	Slice Spacing	0.0
Number of Echoes	1	ACQ TIMING	
TR	800.0	Freq	90
Number of Shots	1	Phase	90
IMAGE ENHANCE		Freq DIR	R/L
Filter Choice	None	NEX	1.00
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	Yes
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV0	1.00
# of Repetitions REST	0	User CV5	1.00
# of Repetitions ACTIVE	0	User CV9	4444.00
SAT		User CV10	1.00
Tag Type	None	User CV12	3.00
Fat/Water Saturation	Fat	User CV18	5000.00
TRICKS		MULTI-PHASE	
Pause On/Off	On	Slice per Location	391
Auto Subtract	0	Phase Acquisition Order	Interleaved
Auto SCIC	Off	Delay after Acquisition	Minimum
		Seperate Series	0
		Delay after Acquisition without AV	0
		Mask Phase	0
		Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

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Diffusion_Field_Map	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, Cla, EPI, DIFF, ARC, HB
	Plane	AXIAL	PSD Name	research/ABCD/muxepi2
	Series Description	Diffusion_Field_Map	SCAN RANGE	
	SCAN TIMING		FOV	24.0
	Flip Angle	77	Slice Thickness	1.7
	TE	Minimum	Slice Spacing	0.0
	Number of Echoes	1	ACQ TIMING	
	TR	4100.0	Freq	140
	Number of Shots	1	Phase	140
	Receiver Bandwidth	125.00	Freq DIR	R/L
	IMAGE ENHANCE		Phase FOV	1.00
	Filter Choice	None	Auto Shim	Auto
	GATING/TRIGGER		Phase Correction	Yes
	Auto Trigger Type	Off	USER CVS	
	FMRI		User CV5	1.00
	PSD Trigger	Internal	User CV10	4444.00
	View Order	Bottom/Up	User CV11	160.00
	# of Repetitions REST	0	User CV12	3.00
	# of Repetitions ACTIVE	0	User CV17	1.00
	SAT		MULTI-PHASE	
	Tag Type	None	Seperate Series	0
	Fat/Water Saturation	Fat	Mask Phase	0
	TRICKS		Mask Pause	0
	Pause On/Off	On	DIFFUSION	
	Auto Subtract	0	Optimized TE	Yes
	Auto SCIC	Off	Diffusion Directions	Tensor
			Number of Diffusion Directions	6
			Number of T2 Images	2
			Dual Spin Echo	Off
			Diffusion Tenser	No Selection
			Processing Output	
			Recon All Images	Off
			CONTRAST	
			Contrast Yes/No	No

Diffusion_Field_Map

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DTI

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	Nova 32ch-Brain
Plane	AXIAL
Series Description	DTI
SCAN TIMING	
Flip Angle	77
TE	Minimum
Number of Echoes	1
TR	4100.0
Number of Shots	1
Receiver Bandwidth	125.00
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Auto Trigger Type	Off
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

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	Spin Echo
Imaging Options	EDR, Cla, EPI, DIFF, ARC, HB
PSD Name	research/ABCD/muxepi2
SCAN RANGE	
FOV	24.0
Slice Thickness	1.7
Slice Spacing	0.0
ACQ TIMING	
Freq	140
Phase	140
Freq DIR	R/L
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
USER CVS	
User CV5	1.00
User CV10	4444.00
User CV11	160.00
User CV12	3.00
User CV15	1.00
User CV17	1.00
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
DIFFUSION	
Optimized TE	Yes
Diffusion Directions	Tensor
Number of Diffusion Directions	102
Number of T2 Images	2
Dual Spin Echo	Off
Diffusion Tenser	No Selection
Processing Output	
Recon All Images	Off
CONTRAST	
Contrast Yes/No	No

DTI

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Sag_CUBE_T2	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Cube
	Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, Fast, FR, ARC, PROMO
	Plane	SAGITTAL	PSD Name	research/3dfse_promo_abcd
	Series Description	Sag_CUBE_T2	SCAN RANGE	
	SCAN TIMING		FOV	25.6
	TE	60.0	Slice Thickness	1.0
	TR	3200.0	Location per Slab	208
	Echo Train Length	140	Overlap Locations	0
	Receiver Bandwidth	31.25	ACQ TIMING	
	IMAGE ENHANCE		Freq	256
	Filter Choice	None	Phase	256
	GATING/TRIGGER		Freq DIR	S/I
	Auto Trigger Type	Off	Fat Shift DIR	Reversed (I)
	FMRI		NEX	1.00
	PSD Trigger	Internal	Phase FOV	1.00
	Slice Order	Interleaved	Auto Shim	Auto
	View Order	Bottom/Up	Phase Correction	No
	# of Repetitions REST	0	USER CVS	
	# of Repetitions ACTIVE	0	User CV5	1.00
	SAT		User CV23	2.00
	Tag Type	None	MULTI-PHASE	
	Fat/Water Saturation	Fat	Seperate Series	0
	TRICKS		Mask Phase	0
	Pause On/Off	On	Mask Pause	0
	Auto Subtract	0	DIFFUSION	
	Auto SCIC	Off	Recon All Images	On
			CONTRAST	
			Contrast Yes/No	No

Sag_CUBE_T2

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	Nova 32ch-Brain	Imaging Options	MPh, EPI
Plane	AXIAL	PSD Name	research/ABCD/epi_pepolar
Series Description	rsfMRI_Field_Map	SCAN RANGE	
SCAN TIMING		FOV	21.6
TE	80.0	Slice Thickness	2.4
TR	7400.0	Slice Spacing	0.0
Number of Shots	1	ACQ TIMING	
IMAGE ENHANCE		Freq	90
Filter Choice	None	Phase	90
GATING/TRIGGER		Freq DIR	R/L
Auto Trigger Type	Off	NEX	1.00
FMRI		Phase FOV	1.00
PSD Trigger	Internal	Auto Shim	Auto
Slice Order	Interleaved	Phase Correction	Yes
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV0	1.00
# of Repetitions ACTIVE	0	User CV7	1.00
SAT		User CV12	2.00
Tag Type	None	User CV13	1.00
Fat/Water Saturation	Fat	MULTI-PHASE	
TRICKS		Slice per Location	3
Pause On/Off	On	Phase Acquisition Order	Interleaved
Auto Subtract	0	Delay after Acquisition	Minimum
Auto SCIC	Off	Seperate Series	0
		Mask Phase	0
		Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, MPh, EPI, ARC, HB
Plane	AXIAL	PSD Name	research/ABCD/muxepi
Series Description	rsfMRI_Run_#3	SCAN RANGE	
SCAN TIMING		FOV	21.6
Flip Angle	52	Slice Thickness	2.4
TE	30.0	Slice Spacing	0.0
Number of Echoes	1	ACQ TIMING	
TR	800.0	Freq	90
Number of Shots	1	Phase	90
IMAGE ENHANCE		Freq DIR	R/L
Filter Choice	None	NEX	1.00
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	Yes
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV0	1.00
# of Repetitions REST	0	User CV5	1.00
# of Repetitions ACTIVE	0	User CV9	4444.00
SAT		User CV10	1.00
Tag Type	None	User CV12	3.00
Fat/Water Saturation	Fat	User CV18	5000.00
TRICKS		MULTI-PHASE	
Pause On/Off	On	Slice per Location	391
Auto Subtract	0	Phase Acquisition Order	Interleaved
Auto SCIC	Off	Delay after Acquisition	Minimum
		Seperate Series	0
		Delay after Acquisition without AV	0
		Mask Phase	0
		Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

Protocol: adult_other_ABCD_Scan_Session1

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, MPh, EPI, ARC, HB
Plane	AXIAL	PSD Name	research/ABCD/muxepi
Series Description	rsfMRI_Run_#4	SCAN RANGE	
SCAN TIMING		FOV	21.6
Flip Angle	52	Slice Thickness	2.4
TE	30.0	Slice Spacing	0.0
Number of Echoes	1	ACQ TIMING	
TR	800.0	Freq	90
Number of Shots	1	Phase	90
IMAGE ENHANCE		Freq DIR	R/L
Filter Choice	None	NEX	1.00
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	Yes
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV0	1.00
# of Repetitions REST	0	User CV5	1.00
# of Repetitions ACTIVE	0	User CV9	4444.00
SAT		User CV10	1.00
Tag Type	None	User CV12	3.00
Fat/Water Saturation	Fat	User CV18	5000.00
TRICKS		MULTI-PHASE	
Pause On/Off	On	Slice per Location	391
Auto Subtract	0	Phase Acquisition Order	Interleaved
Auto SCIC	Off	Delay after Acquisition	Minimum
		Seperate Series	0
		Delay after Acquisition without AV	0
		Mask Phase	0
		Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No