

KCH CRF 3T

Protocol: adult_pelvis_PILOT_TRAVEL

LOC, None	PATIENT POSITION		IMAGING PARAMETERS		LOC, None
	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	LOC, None	FOV	28.0	
	SCAN TIMING		Slice Thickness	8.0	
	TE	80.0	Slice Spacing	0.0	
	Number of Echoes	1	ACQ TIMING		
	TR	Minimum	Freq	384	
	Receiver Bandwidth	83.33	Phase	160	
	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		
	View Order	Bottom/Up	User CV1	1.00	
	# of Repetitions REST	0	User CV2	240.00	
	# of Repetitions ACTIVE	0	User CV13	1.00	
	SAT		MULTI-PHASE		
	Tag Type	None	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		

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ASSET calibration	PATIENT POSITION		IMAGING PARAMETERS		ASSET calibration
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, Fast, ZIP2, Calib	
	Plane	AXIAL	SCAN RANGE		
	Series Description	ASSET calibration	FOV	30.0	
	SCAN TIMING		Slice Thickness	9.4	
	Number of Echoes	1	ACQ TIMING		
	IMAGE ENHANCE		Freq DIR	R/L	
	Filter Choice	None	Auto Shim	Auto	
	GATING/TRIGGER		Phase Correction	No	
	Auto Trigger Type	Off	FMRI		
	MULTI-PHASE		PSD Trigger	Internal	
	Seperate Series	0	Slice Order	Interleaved	
	Mask Phase	0	View Order	Bottom/Up	
	Mask Pause	0	# of Repetitions REST	0	
	DIFFUSION		# of Repetitions ACTIVE	0	
	Recon All Images	On	SAT		
	CONTRAST		Tag Type	None	
	Contrast Yes/No	No	TRICKS		
		Pause On/Off	On		
		Auto Subtract	0		
		Auto SCIC	Off		

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T1 MPRAGE PROMO	PATIENT POSITION		IMAGING PARAMETERS		T1 MPRAGE PROMO
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, Fast, ARC, IrP	
	Plane	SAGITTAL	PSD Name	research/mprage_promo2	
	Series Description	T1 MPRAGE PROMO	SCAN RANGE		
	SCAN TIMING		FOV	25.6	
	Flip Angle	8	Slice Thickness	1.0	
	TE	Minimum	Location per Slab	208	
	Number of Echoes	1	Overlap Locations	0	
	TI	800	ACQ TIMING		
	Receiver Bandwidth	31.25	Freq	256	
	IMAGE ENHANCE		Phase	256	
	Filter Choice	None	Freq DIR	S/I	
	GATING/TRIGGER		NEX	1.00	
	Auto Trigger Type	Off	Phase FOV	1.00	
	FMRI		Auto Shim	On	
	PSD Trigger	Internal	Phase Correction	No	
	View Order	Bottom/Up	USER CVS		
	# of Repetitions REST	0	User CV9	24.00	
# of Repetitions ACTIVE	0	User CV10	24.00		
SAT		User CV23	100.00		
Tag Type	None	User CV24	2000.00		
TRICKS		MULTI-PHASE			
Pause On/Off	On	Seperate Series	0		
Auto Subtract	0	Trigger Delay without AV	0		
Auto SCIC	2	Mask Phase	0		
		Mask Pause	0		
		DIFFUSION			
		Recon All Images	On		
		CONTRAST			
		Contrast Yes/No	No		

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restingfMRI	PATIENT POSITION		IMAGING PARAMETERS		restingfMRI
	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	OBLIQUE	PSD Name	multiband/mux_epi	
	Series Description	restingfMRI	SCAN RANGE		
	SCAN TIMING		FOV	24.0	
	Flip Angle	50	Slice Thickness	2.4	
	TE	39.0	Slice Spacing	0.0	
	Number of Echoes	1	ACQ TIMING		
	TR	890.0	Freq	88	
	Number of Shots	1	Phase	88	
	IMAGE ENHANCE		Freq DIR	R/L	
	Filter Choice	None	NEX	1.00	
	GATING/TRIGGER		Phase FOV	1.00	
	Auto Trigger Type	Off	Auto Shim	On	
	FMRI		Phase Correction	Yes	
	PSD Trigger	Internal	USER CVS		
	View Order	Bottom/Up	User CV0	1.00	
	# of Repetitions REST	0	User CV3	1.00	
# of Repetitions ACTIVE	0	MULTI-PHASE			
SAT		Slice per Location	495		
Tag Type	None	Phase Acquisition Order	Interleaved		
TRICKS		Delay after Acquisition	Minimum		
Pause On/Off	On	Seperate Series	0		
Auto Subtract	0	Mask Phase	0		
Auto SCIC	Off	Mask Pause	0		
OTHERS		DIFFUSION			
Protocol Notes	Try not to change any parameters but if you really have to: Slice Coverage setup for MB Diffusion: 1. Set Graphic Rx slices to cover the entire brain (do not exceed 45 slices) 2. Divide the number of whole brain slices by 3 3. Enter this value into the # slices location. Value needs to be odd. 4. Graphic Rx slices will be reduced to the value selected centrally in the brain 5. Adjust TR as needed; do not exceed 900msec. The TE needs to be at 30ms.				
		CONTRAST			
		Contrast Yes/No	No		

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single Vol EPI	PATIENT POSITION		IMAGING PARAMETERS		single Vol EPI
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Gradient Echo	
	Coil Configuration	Nova 32ch-Brain	Imaging Options	EPI, Asset	
	Plane	OBLIQUE	PSD Name	multiband/mux_epi	
	Series Description	single Vol EPI	SCAN RANGE		
	SCAN TIMING		FOV	24.0	
	Flip Angle	90	Slice Thickness	2.4	
	TE	39.0	Slice Spacing	0.0	
	Number of Echoes	1	ACQ TIMING		
	TR	10000.0	Freq	88	
	Number of Shots	1	Phase	88	
	IMAGE ENHANCE		Freq DIR	R/L	
	Filter Choice	None	NEX	1.00	
	GATING/TRIGGER		Phase FOV	1.00	
	Auto Trigger Type	Off	Auto Shim	Off	
	FMRI		Phase Correction	Yes	
	PSD Trigger	Internal	USER CVS		
	View Order	Bottom/Up	User CV0	1.00	
	# of Repetitions REST	0	User CV3	1.00	
# of Repetitions ACTIVE	0	MULTI-PHASE			
SAT		Seperate Series	0		
Tag Type	None	Mask Phase	0		
Fat/Water Saturation	Fat	Mask Pause	0		
TRICKS		DIFFUSION			
Pause On/Off	On	Recon All Images	On		
Auto Subtract	0	CONTRAST			
Auto SCIC	Off	Contrast Yes/No	No		
OTHERS					
Protocol Notes	Try not to change any parameters but if you really have to: Slice Coverage setup for MB Diffusion: 1. Set Graphic Rx slices to cover the entire brain (do not exceed 45 slices) 2. Divide the number of whole brain slices by 3 3. Enter this value into the # slices location. Value needs to be odd. 4. Graphic Rx slices will be reduced to the value selected centrally in the brain 5. Adjust TR as needed; do not exceed 900msec. The TE needs to be at 30ms.				

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DWI_UKBB_first	PATIENT POSITION		IMAGING PARAMETERS		DWI_UKBB_first
	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	OBLIQUE	PSD Name	epi2_cns_BB2	
	Series Description	DWI_UKBB_first	SCAN RANGE		
	SCAN TIMING		FOV	20.8	
	TE	Minimum	Slice Thickness	2.0	
	Number of Echoes	1	Slice Spacing	0.0	
	TR	3600.0	ACQ TIMING		
	Number of Shots	1	Freq	104	
	Receiver Bandwidth	250.00	Phase	104	
	IMAGE ENHANCE		Freq DIR	R/L	
	Filter Choice	None	Phase FOV	1.00	
	GATING/TRIGGER		Auto Shim	Off	
	Auto Trigger Type	Off	Phase Correction	Yes	
	FMRI		USER CVS		
	PSD Trigger	Internal	User CV5	1.00	
	View Order	Bottom/Up	User CV13	2.00	
	# of Repetitions REST	0	User CV17	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	Optimized TE	Yes		
Auto SCIC	Off	Diffusion Directions	Tensor		
		Number of Diffusion Directions	6		
		Number of T2 Images	1		
		Dual Spin Echo	Off		
		Diffusion Tensor Processing Output	No Selection		
		Recon All Images	Off		
		CONTRAST			
		Contrast Yes/No	No		

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DWI_UKBB_second	PATIENT POSITION		IMAGING PARAMETERS		DWI_UKBB_second
	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	OBLIQUE	PSD Name	epi2_cns_BB2	
	Series Description	DWI_UKBB_second	SCAN RANGE		
	SCAN TIMING		FOV	20.8	
	TE	Minimum	Slice Thickness	2.0	
	Number of Echoes	1	Slice Spacing	0.0	
	TR	3600.0	ACQ TIMING		
	Number of Shots	1	Freq	104	
	Receiver Bandwidth	250.00	Phase	104	
	IMAGE ENHANCE		Freq DIR	R/L	
	Filter Choice	None	Phase FOV	1.00	
	GATING/TRIGGER		Auto Shim	Off	
	Auto Trigger Type	Off	Phase Correction	Yes	
	FMRI		USER CVS		
	PSD Trigger	Internal	User CV5	1.00	
	View Order	Bottom/Up	User CV13	2.00	
	# of Repetitions REST	0	User CV17	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	Optimized TE	Yes		
Auto SCIC	Off	Diffusion Directions	Tensor		
		Number of Diffusion Directions	104		
		Number of T2 Images	3		
		Dual Spin Echo	Off		
		Diffusion Tenser Processing Output	No Selection		
		Recon All Images	Off		
		CONTRAST			
		Contrast Yes/No	No		

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Cube T2 FLAIR
Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, Fast, T2P, ARC, IrP
Plane	SAGITTAL	SCAN RANGE	
Series Description	3D CUBE FLAIR T2 PREP	FOV	25.6
SCAN TIMING		Slice Thickness	1.0
TE	103.0	Location per Slab	196
Number of Echoes	1	Overlap Locations	0
TR	5000.0	ACQ TIMING	
TI	1501	Freq	256
Echo Train Length	180	Phase	256
Receiver Bandwidth	50.00	Freq DIR	S/I
IMAGE ENHANCE		NEX	1.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	On
Auto Trigger Type	Off	Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV5	1.00
View Order	Bottom/Up	MULTI-PHASE	
# of Repetitions REST	0	Seperate Series	0
# of Repetitions ACTIVE	0	Delay after Acquisition without AV	0
SAT		Mask Phase	0
Tag Type	None	Mask Pause	0
Fat/Water Saturation	Fat	DIFFUSION	
TRICKS		Recon All Images	On
Pause On/Off	On	CONTRAST	
Auto Subtract	0	Contrast Yes/No	No
Auto SCIC	2		

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SWI 3-echo 4.9 14.2 23.3	PATIENT POSITION		IMAGING PARAMETERS		SWI 3-echo 4.9 14.2 23.3
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, Fast, Asset	
	Plane	OBLIQUE	PSD Name	fieldmap	
	Series Description	SWI 3-echo 4.9 14.2 23.3	SCAN RANGE		
	SCAN TIMING		FOV	23.0	
	Flip Angle	15	Slice Thickness	3.0	
	Number of Echoes	3	Location per Slab	52	
	Receiver Bandwidth	15.63	Overlap Locations	0	
	IMAGE ENHANCE		ACQ TIMING		
	Filter Choice	None	Freq	256	
	GATING/TRIGGER		Phase	232	
	Auto Trigger Type	Off	Freq DIR	A/P	
	FMRI		Phase FOV	1.00	
	Initial State	Control	Auto Shim	On	
	PSD Trigger	Internal	Phase Correction	No	
	View Order	Bottom/Up	USER CVS		
	# of Repetitions REST	0	User CV16	1.00	
	# of Repetitions ACTIVE	0	MULTI-PHASE		
SAT		Seperate Series	0		
Tag Type	None	Trigger Delay without AV	0		
TRICKS		Mask Phase	0		
Pause On/Off	On	Mask Pause	0		
Auto Subtract	0	DIFFUSION			
Auto SCIC	2	Recon All Images	On		
		CONTRAST			
		Contrast Yes/No	No		

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3D ASL (non-contrast)	PATIENT POSITION		IMAGING PARAMETERS		3D ASL (non-contrast)
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	3DASL	
	Coil Configuration	Nova 32ch-Brain	Imaging Options	EDR, Fast, Spiral	
	Plane	AXIAL	SCAN RANGE		
	Series Description	3D ASL (non-contrast)	FOV	24.0	
	SCAN TIMING		Slice Thickness	4.0	
	Number of Echoes	1	ACQ TIMING		
	Receiver Bandwidth	62.50	Freq	512	
	IMAGE ENHANCE		Phase	8	
	Filter Choice	None	Freq DIR	R/L	
	GATING/TRIGGER		NEX	4.00	
	Auto Trigger Type	Off	Auto Shim	Auto	
	MULTI-PHASE		Phase Correction	No	
	Seperate Series	0	FMRI		
	Delay after Acquisition without AV	0	PSD Trigger	Internal	
	Mask Phase	0	View Order	Bottom/Up	
	Mask Pause	0	# of Repetitions REST	0	
	DIFFUSION		# of Repetitions ACTIVE	0	
	Recon All Images	On	SAT		
CONTRAST		Tag Type	None		
Contrast Yes/No	No	TRICKS			
		Pause On/Off	On		
		Auto Subtract	0		
		Auto SCIC	Off		
		OTHERS			
		Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum		