Protocol: adult_spine_spine_generic_20180516_20180516174349888_1

		<u>10_0pino_gonono_201000_10_</u>			
	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Spin Echo	
	Coil Configuration	GEM Head;GEM Spine	Imaging Options	Seq, EDR, Fast, SS, ART, ARC	
	Plane	3-PLANE		ANG	
	Series Description	3P Localizer	SCAN RANGE		
	SCAN TIMING		FOV	30.0	
	TE	93.0	Slice Thickness	5.0	
	TR	Minimum	Slice Spacing	5.0	
	Receiver Bandwidth	62.50	ACQ TIMING		
	IMAGE ENHANCE		Freq	256	lizer
	Filter Choice	None	Phase	160	
	CATINIC/TRICCER		Freq DIR	Unswap	
_	GATING/TRIGGER	0"	# of Acq. Before Pause	0	
3P Localizer	Auto Trigger Type	Off	Phase FOV	1.00	
ca	FMRI		Auto Shim	Auto	ca
2	PSD Trigger	Internal	Phase Correction	No	3P Localizer
3Р	Slice Order	Interleaved	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	Acoustic Reduction Level	3	
	Auto SCIC	Off	DIFFUSION		
			Recon All Images	On	
			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	SPGR	
	Coil Configuration	GEM Head;GEM Spine	Imaging Options	EDR, Fast, ZIP2, Calib, ART	
	Plane	AXIAL	SCAN RANGE		
	Series Description	Cal	FOV	50.0	
	SCAN TIMING		Slice Thickness	15.8	
	Number of Echoes	1	ACQ TIMING		
	IMAGE ENHANCE		Freq DIR	R/L	
	Filter Choice	None	Auto Shim	Auto	
_	GATING/TRIGGER		Phase Correction	No	_
Cal	Auto Trigger Type	Off	FMRI		Cal
	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	
	Acoustic Reduction Level	3	# of Repetitions ACTIVE	0	
	DIFFUSION		SAT		
	Recon All Images	On	Tag Type	None	
	CONTRAST		TRICKS		
	Contrast Yes/No	No	Pause On/Off	On	
		-	Auto Subtract	0	
			Auto SCIC	Off	

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	PATIENT POSITION	=	IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	GEM Head;GEM Spine	Imaging Options	EDR, Fast, IrP, Asset	
	Plane	SAGITTAL	SCAN RANGE		
	Series Description	T1w	FOV	32.0	
	SCAN TIMING		Slice Thickness	1.0	
	Flip Angle	9	Location per Slab	192	
	TE	Min Full	Overlap Locations	0	
	TI	1000	ACQ TIMING		
	Receiver Bandwidth	142.86	Freq	320	
	IMAGE ENHANCE		Phase	256	
	Filter Choice	А	Freq DIR	S/I	
T1w	GATING/TRIGGER		NEX	1.00	M1
\vdash	Auto Trigger Type	Off	Phase FOV	0.80	\vdash
	FMRI		Auto Shim	Auto	
	Initial State	Control	Phase Correction	No	
	PSD Trigger	Internal	USER CVS		
	Slice Order	Interleaved	User CV6	1.00	
	View Order	Bottom/Up	User CV23	100.00	
	# of Repetitions REST	0	MULTI-PHASE		
	# of Repetitions ACTIVE	0	Seperate Series	0	
	DIFFUSION		Mask Phase	0	
	Recon All Images	On	Mask Pause	0	
	CONTRAST		TRICKS		
	Contrast Yes/No	No	Pause On/Off	On	
		-	Auto Subtract	0	
			Auto SCIC	2	

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	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	Cube	
	Coil Configuration	GEM Head;GEM Neck	Imaging Options	FC, NPW, EDR, Fast, FR,	
	Plane	OBLIQUE		ARC	
	Series Description	T2w	SCAN RANGE		
	SCAN TIMING		FOV	25.6	
	Flip Angle	90	Slice Thickness	0.8	
	TE	120.0	Location per Slab	64	
	TE2	50.0	Overlap Locations	0	П
	Number of Echoes	1	ACQ TIMING		
	TR	2500.0	Freq	320	
	TI	50	Phase	320	
	Echo Train Length	78	Freq DIR	S/I	
	Receiver Bandwidth	83.33	NEX	1.00	T2w
T2w	IMAGE ENHANCE		Auto Shim	Auto	×
12	Filter Choice	A	Phase Correction	No	72
	GATING/TRIGGER		Flow Direction Compensation	Freq	
	Auto Trigger Type	Off	USER CVS		
	FMRI		User CV22	2.00	
	PSD Trigger	Internal	MULTI-PHASE		
	Slice Order	Interleaved	Seperate Series	0	
	View Order	Bottom/Up	Mask Phase	0	
	# of Repetitions REST	0	Mask Pause	0	
	# of Repetitions ACTIVE	0	DIFFUSION		
	SAT		Recon All Images	On	
	Tag Type	None	CONTRAST	011	
	TRICKS		CONTRAST Contrast Yes/No	No	
	Pause On/Off	On	Contrast 169/NO	IVO	
	Auto Subtract	0			
	Auto SCIC	On			

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	PATIENT POSITION	ie_spine_genenc_zo1005_fo_			
	Patient Entry	Head First	IMAGING PARAMETERS Imaging Mode	2D	
	Patient Position			Spin Echo	
		Supine	Pulse Sequence	·	
	Coil Configuration	GEM Head;GEM Neck;GEM Spine	Imaging Options	EDR, EPI, DIFF	
	Plane	AXIAL	SCAN RANGE		
	Series Description	DWI	FOV	8.6	
	SCAN TIMING		Slice Thickness	5.0	
	TE	Minimum	Slice Spacing	0.0	
	TR	5000.0	ACQ TIMING		
	Number of Shots	1	Freq	96	
	IMA OF FAULANOF		Phase	48	
	IMAGE ENHANCE	Mana	Freq DIR	R/L	
	Filter Choice	None	Phase FOV	0.50	
	GATING/TRIGGER		Auto Shim	Auto	
	Auto Trigger Type	Off	Phase Correction	Yes	
	FMRI		USER CVS		
DWI	PSD Trigger	Internal	User CV5	1.00	DWI
	Slice Order	Interleaved	User CV17	1.00	
	View Order	Bottom/Up	MULTI-PHASE		
	# of Repetitions REST	0	Seperate Series	0	
	# of Repetitions ACTIVE	0	Mask Phase	0	
	SAT		Mask Pause	0	
	Tag Type	None	DIFFUSION		
	Fat/Water Saturation	Fat	Optimized TE	Yes	
	TRICKS		Diffusion Directions	Tensor	
	Pause On/Off	On	Number of Diffusion Directions	30	
	Auto Subtract	0	Number of T2 Images	5	
	Auto SCIC	Off	Dual Spin Echo	Off	
			Diffusion Tenser	No Selection	
			Processing Output		
			Recon All Images	Off	
			CONTRAST		
			Contrast Yes/No	No	

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	PATIENT POSITION		IMAGING PARAMETE	RS	
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	GEM Head;GEM Spine	Imaging Options	EDR, MgT	
	Plane	AXIAL	SCAN RANGE		
	Series Description	GRE-MT1	FOV	17.3	
	SCAN TIMING		Slice Thickness	5.0	
	Flip Angle	9	ACQ TIMING		
	TE	4.0	Freq	192	
	TR	62.0	Phase	192	
	Receiver Bandwidth	41.67	Freq DIR	R/L	
	IMAGE ENHANCE		NEX	1.00	
Σ	Filter Choice	Α	Phase FOV	1.00	Σ
Į.	GATING/TRIGGER		Auto Shim	Auto	Ę
R	Auto Trigger Type	Off	Phase Correction	No	X
0	FMRI		USER CVS		ပ
		Internal	User CV1	1200.00	
	Slice Order	Interleaved	User CV2	1.00	
	View Order	Bottom/Up	MULTI-PHASE		
	# of Repetitions REST	0	Seperate Series	0	
	# of Repetitions ACTIVE	0	Mask Phase	0	
	SAT		Mask Pause	0	
	Tag Type	None	DIFFUSION		
	TRICKS		Recon All Images	On	
	Pause On/Off	On	CONTRAST		
	Auto Subtract	0	Contrast Yes/No	No	
	Auto SCIC	Off			
GRE-MT1	Auto Trigger Type FMRI PSD Trigger Slice Order View Order # of Repetitions REST # of Repetitions ACTIVE SAT Tag Type TRICKS Pause On/Off Auto Subtract	Internal Interleaved Bottom/Up 0 0 None On	Phase Correction USER CVS User CV1 User CV2 MULTI-PHASE Seperate Series Mask Phase Mask Pause DIFFUSION Recon All Images CONTRAST	No 1200.00 1.00 0 0 0 O O O O O O O O O O O O O O O	GRE-MT1

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	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	GEM Head;GEM Spine	Imaging Options	EDR	
	Plane	AXIAL	SCAN RANGE		
	Series Description	GRE-MT0	FOV	17.3	
	SCAN TIMING		Slice Thickness	5.0	
	Flip Angle	9	ACQ TIMING		
	TE	4.0	Freq	192	
	TR	62.0	Phase	192	
	Receiver Bandwidth	41.67	Freq DIR	R/L	
	IMAGE ENHANCE		NEX	1.00	
2	Filter Choice	Α	Phase FOV	1.00	2
<u>\</u>	GATING/TRIGGER		Auto Shim	Auto	
GRE-MT0	Auto Trigger Type	Off	Phase Correction	No	GRE-MT0
O	MULTI-PHASE		FMRI		O
	Seperate Series	0	PSD Trigger	Internal	
	Mask Phase	0	Slice Order	Interleaved	
	Mask Pause	0	View Order	Bottom/Up	
	DIFFUSION		# of Repetitions REST	0	
	Recon All Images	On	# of Repetitions ACTIVE	0	
		<i></i>	SAT		
	CONTRAST Contrast Yes/No	No	Tag Type	None	
	Contrast res/No	NO	TRICKS		
			Pause On/Off	On	
			Auto Subtract	0	
			Auto SCIC	Off	

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	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	GEM Head;GEM Spine	Imaging Options	EDR	
	Plane	AXIAL	SCAN RANGE		
	Series Description	GRE-T1w	FOV	17.3	
	SCAN TIMING		Slice Thickness	5.0	
	Flip Angle	15	ACQ TIMING		
	TE	4.0	Freq	192	
	TR	15.0	Phase	192	
	Receiver Bandwidth	41.67	Freq DIR	R/L	
	IMAGE ENHANCE		NEX	1.00	
>	Filter Choice	Α	Phase FOV 1.00	1.00	>
法	GATING/TRIGGER		Auto Shim	Auto	GRE-T1w
GRE-T1w	Auto Trigger Type	Off	Phase Correction	No	
O	MULTI-PHASE		FMRI		O
	Seperate Series	0	PSD Trigger	Internal	
	Mask Phase	0	Slice Order	Interleaved	
	Mask Pause	0	View Order	Bottom/Up	
	DIFFUSION		# of Repetitions REST	0	
	Recon All Images	On	# of Repetitions ACTIVE	0	
		CII	SAT		
	CONTRAST	A.L.	Tag Type	None	
	Contrast Yes/No	No	TRICKS		
			Pause On/Off	On	
			Auto Subtract	0	
			Auto SCIC	Off	

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	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	MERGE	
	Coil Configuration	GEM Head;GEM Spine	Imaging Options	FC, EDR, Fast, ARC	
	Plane	AXIAL	SCAN RANGE		
	Series Description	GRE-ME	FOV	22.4	
	SCAN TIMING		Slice Thickness	5.0	
	Flip Angle	30	Slice Spacing	0.0	
	TR	600.0	ACQ TIMING		
	Receiver Bandwidth	62.50	Freq	448	
	IMAGE ENHANCE		Phase	448	
	Filter Choice	A	Freq DIR	R/L	
	GATING/TRIGGER		NEX	2.00	
GRE-ME	Auto Trigger Type	Off	Phase FOV	1.00	Ā
RE	MULTI-PHASE		Auto Shim	Auto	R.
G	Seperate Series	0	Phase Correction	No	Q
	Mask Phase	0	FMRI		
	Mask Pause	0	PSD Trigger	Internal	
	DIFFUSION		Slice Order	Interleaved	GRE-ME
	Recon All Images	On	View Order	Bottom/Up	
		OII	# of Repetitions REST	0	
	CONTRAST	•	# of Repetitions ACTIVE	0	
	Contrast Yes/No	No	SAT		
			Tag Type	None	
			TRICKS		
			Pause On/Off	On	
			Auto Subtract	0	
			Auto SCIC	Off	

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	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Gradient Echo	
	Coil Configuration	GEM Head;GEM Spine	Imaging Options	EDR	
	Plane	SAGITTAL	SCAN RANGE		
	Series Description	SNR_sag	FOV	25.6	
	SCAN TIMING		Slice Thickness	5.0	
	Flip Angle	10	Slice Spacing	0.0	
	TE	4.0	ACQ TIMING		
	Number of Echoes	1	Freq	256	
	TR	250.0	Phase	256	
	Receiver Bandwidth	15.63	Freq DIR	S/I	sag
	IMAGE ENHANCE		NEX	1.00	_
sag	Filter Choice	None	Phase FOV	1.00	SNR_sag
	GATING/TRIGGER		Auto Shim	Auto	
SNR	Auto Trigger Type	Off	Phase Correction	No	
	MULTI-PHASE		FMRI		
	Seperate Series	0	PSD Trigger	Internal	
	Mask Phase	0	Slice Order	Interleaved	
	Mask Pause	0	View Order	Bottom/Up	
	DIFFUSION		# of Repetitions REST	0	
	Recon All Images	On	# of Repetitions ACTIVE	0	
		OII	SAT		
	CONTRAST	A1-	Tag Type	None	
	Contrast Yes/No	No	TRICKS		
			Pause On/Off	On	
			Auto Subtract	0	
			Auto SCIC	Off	