

McLeod Pavilion

Protocol: adult_head_Brain METS

3-Plane Localizer	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	48Ch Head Coil	Imaging Options	Seq, EDR, TRF, Fast, SS, ARC
	Plane	3-PLANE	SCAN RANGE	
	Series Description	3-Plane Localizer	FOV	30.0
	SCAN TIMING		Slice Thickness	10.0
	TE	80.0	Slice Spacing	5.0
	Number of Echoes	1	ACQ TIMING	
	TR	1200.0	Freq	256
	Receiver Bandwidth	83.33	Phase	128
	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	MULTI-PHASE	
	# of Repetitions ACTIVE	0	Seperate Series	0
	SAT		Mask Phase	0
	Tag Type	None	Mask Pause	0
	TRICKS		DIFFUSION	
	Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST		
Auto SCIC	Off	Contrast Yes/No	No	

3-Plane Localizer

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	48Ch Head Coil	Imaging Options	EDR, EPI, DIFF, Asset
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax DWI ALL B-1000	FOV	24.0
SCAN TIMING		Slice Thickness	4.0
TE	Minimum	Slice Spacing	0.4
Number of Echoes	1	ACQ TIMING	
TR	7424.0	Freq	120
Number of Shots	1	Phase	160
IMAGE ENHANCE		Freq DIR	Swap
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV0	1.00
View Order	Bottom/Up	User CV5	1.00
# of Repetitions REST	0	User CV17	1.00
# of Repetitions ACTIVE	0	TR Min	2000.0
SAT		TR Max	17000.0
Tag Type	None	MULTI-PHASE	
TRICKS		Seperate Series	0
Pause On/Off	On	Mask Phase	0
Auto Subtract	0	Mask Pause	0
Auto SCIC	2	DIFFUSION	
		Optimized TE	Yes
		Diffusion Directions	All
		Number of Diffusion Directions	3
		Number of T2 Images	1
		Dual Spin Echo	Off
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

Ax DWI ALL B-1000

Ax DWI ALL B-1000

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	SPGR
Coil Configuration	48Ch Head Coil	Imaging Options	EDR, Fast, ZIP512, ZIP2, Asset, IrP
Plane	OBLIQUE	SCAN RANGE	
Series Description	3D Ax T1 FSPGR	FOV	24.0
SCAN TIMING		Slice Thickness	1.2
Flip Angle	12	Location per Slab	130
TE	Min Full	Overlap Locations	0
Number of Echoes	1	ACQ TIMING	
TI	450	Freq	256
Receiver Bandwidth	31.25	Phase	256
IMAGE ENHANCE		Freq DIR	Unswap
Filter Choice	G	NEX	1.00
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	No
Initial State	Control	USER CVS	
PSD Trigger	Internal	User CV6	2.00
View Order	Bottom/Up	User CV23	90.00
# of Repetitions REST	0	MULTI-PHASE	
# of Repetitions ACTIVE	0	Seperate Series	0
DIFFUSION		Trigger Delay without AV	0
Recon All Images	On	Mask Phase	0
CONTRAST		Mask Pause	0
Contrast Yes/No	No	TRICKS	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	2

3D Ax T1 FSPGR

3D Ax T1 FSPGR

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	48Ch Head Coil	Imaging Options	EDR
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax T2* GRE	FOV	24.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	15	Slice Spacing	1.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	256
TR	509.0	Phase	160
Receiver Bandwidth	20.83	Freq DIR	A/P
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
MULTI-PHASE		FMRI	
Seperate Series	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	On

Ax T2* GRE

Ax T2* GRE

McLeod Pavilion

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	48Ch Head Coil	Imaging Options	EDR, TRF, Fast, ARC, T2flair
Plane	OBLIQUE		
Series Description	Ax T2 FLAIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	24.0
TE	140.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.5
TR	12000.0		
TI	2711	ACQ TIMING	
Echo Train Length	21	Freq	260
Receiver Bandwidth	41.67	Phase	224
IMAGE ENHANCE		Freq DIR	A/P
Filter Choice	G	Fat Shift DIR	Normal (A)
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 CV22	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	2	CONTRAST	
		Contrast Yes/No	No

Ax T2 FLAIR

Ax T2 FLAIR

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	PROPELLER
Coil Configuration	48Ch Head Coil	Imaging Options	EDR, TRF, Fast, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax T2 PROPELLER	FOV	24.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	142	Slice Spacing	1.5
Number of Echoes	1	ACQ TIMING	
TR	7007.0	Freq	340
Echo Train Length	32	Freq DIR	A/P
Receiver Bandwidth	50.00	Fat Shift DIR	Normal (A)
IMAGE ENHANCE		NEX	2.00
Filter Choice	F	Auto Shim	Auto
GATING/TRIGGER		Phase Correction	No
Auto Trigger Type	Off	USER CVS	
FMRI		User CV5	1.00
PSD Trigger	Internal	TR Min	3000.0
View Order	Bottom/Up	TR Max	10000.0
# of Repetitions REST	0	MULTI-PHASE	
# of Repetitions ACTIVE	0	Seperate Series	0
SAT		Mask Phase	0
Tag Type	None	Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	2	Contrast Yes/No	No

Ax T2 PROPELLER

Ax T2 PROPELLER

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	48Ch Head Coil	Imaging Options	Seq, EDR, TRF, Fast, SS, ARC
Plane	3-PLANE	SCAN RANGE	
Series Description	--Contrast--	FOV	30.0
SCAN TIMING		Slice Thickness	10.0
TE	80.0	Slice Spacing	5.0
Number of Echoes	1	ACQ TIMING	
TR	1200.0	Freq	256
Receiver Bandwidth	83.33	Phase	128
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	MULTI-PHASE	
# of Repetitions ACTIVE	0	Seperate Series	0
SAT		Mask Phase	0
Tag Type	None	Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	Off	Contrast Yes/No	No

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+ C 3D Ax T1 FSPGR	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	SPGR
	Coil Configuration	48Ch Head Coil	Imaging Options	EDR, Fast, ZIP512, ZIP2, Asset, IrP
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	+ C 3D Ax T1 FSPGR	FOV	24.0
	SCAN TIMING		Slice Thickness	1.2
	Flip Angle	12	Location per Slab	130
	TE	Min Full	Overlap Locations	0
	Number of Echoes	1	ACQ TIMING	
	TI	450	Freq	256
	Receiver Bandwidth	31.25	Phase	256
	IMAGE ENHANCE		Freq DIR	Unswap
	Filter Choice	G	NEX	1.00
	GATING/TRIGGER		Phase FOV	1.00
	Auto Trigger Type	Off	Auto Shim	Auto
	FMRI		Phase Correction	No
	Initial State	Control	USER CVS	
	PSD Trigger	Internal	User CV6	2.00
	View Order	Bottom/Up	User CV23	90.00
	# of Repetitions REST	0	MULTI-PHASE	
	# of Repetitions ACTIVE	0	Seperate Series	0
	DIFFUSION		Trigger Delay without AV	0
	Recon All Images	On	Mask Phase	0
	CONTRAST		Mask Pause	0
Contrast Yes/No	Yes	TRICKS		
		Pause On/Off	On	
		Auto Subtract	0	
		Auto SCIC	2	

+ C 3D Ax T1 FSPGR

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	48Ch Head Coil	Imaging Options	EDR, TRF, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	+C Ax T1 FSE	FOV	24.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	111	Slice Spacing	1.5
TE	11.0	ACQ TIMING	
Number of Echoes	1	Freq	192
TR	750.0	Phase	160
Echo Train Length	3	Freq DIR	A/P
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (A)
IMAGE ENHANCE		NEX	1.00
Filter Choice	G	# of Acq. Before Pause	0
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 CV16	1.00
# of Repetitions REST	0	User CV22	1.00
# of Repetitions ACTIVE	0	TR Min	750.0
SAT		TR Max	950.0
SAT Location	I	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	2	Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

+C Ax T1 FSE

+C Ax T1 FSE