

McLeod Pavilion

Protocol: adult_head_Brain Demantia/Mem loss/Alz

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		
Series Description	3-Plane Localizer		
SCAN TIMING		SCAN RANGE	
TE	80.0	FOV	30.0
Number of Echoes	1	Slice Thickness	10.0
TR	1200.0	Slice Spacing	5.0
Receiver Bandwidth	83.33		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	256
		Phase	128
		Freq DIR	Unswap
		# of Acq. Before Pause	0
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	No
GATING/TRIGGER		USER CVS	
Auto Trigger Type	Off	User CV1	1.00
FMRI		MULTI-PHASE	
PSD Trigger	Internal	Seperate Series	0
View Order	Bottom/Up	Mask Phase	0
# of Repetitions REST	0	Mask Pause	0
# of Repetitions ACTIVE	0		
SAT		DIFFUSION	
Tag Type	None	Recon All Images	On
TRICKS		CONTRAST	
Pause On/Off	On	Contrast Yes/No	No
Auto Subtract	0		
Auto SCIC	Off		

3-Plane Localizer

3-Plane Localizer

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	BRAVO
Coil Configuration	48Ch Head Coil	Imaging Options	EDR, Fast, ZIP512, ZIP2, ARC, IrP
Plane	AXIAL		
Series Description	3D Ax T1 BRAVO MUST DO		
SCAN TIMING		SCAN RANGE	
Flip Angle	12	FOV	24.0
Number of Echoes	1	Slice Thickness	1.2
TI	450	Location per Slab	130
Receiver Bandwidth	31.25	Overlap Locations	0
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	G	Freq	256
		Phase	256
GATING/TRIGGER		Freq DIR	A/P
Auto Trigger Type	Off	NEX	1.00
MULTI-PHASE		Phase FOV	1.00
Seperate Series	0	Auto Shim	Auto
Trigger Delay without AV	0	Phase Correction	No
Mask Phase	0	FMRI	
Mask Pause	0	PSD Trigger	Internal
DIFFUSION		View Order	Bottom/Up
Recon All Images	On	# 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	2

3D Ax T1 BRAVO MUST DO

3D Ax T1 BRAVO MUST DO

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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	9450.0	Freq	120
Number of Shots	1	Phase	180
IMAGE ENHANCE		Freq DIR	R/L
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 CV7	1.00
# of Repetitions ACTIVE	0	User CV17	1.00
SAT		User CV18	1.00
Tag Type	None	TR Min	2000.0
Fat/Water Saturation	Fat	TR Max	17000.0
TRICKS		MULTI-PHASE	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	2	Mask Pause	0
		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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Ax T2* GRE	PATIENT POSITION		IMAGING PARAMETERS		Ax T2* GRE
	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	359.0	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	Slice Order	Interleaved	
	Mask Pause	0	View Order	Bottom/Up	
DIFFUSION		# of Repetitions REST	0		
Recon All Images	On	# of Repetitions ACTIVE	0		
CONTRAST		SAT			
Contrast Yes/No	No	Tag Type	None		
		TRICKS			
		Pause On/Off	On		
		Auto Subtract	0		
		Auto SCIC	On		

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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	A	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	6694.0	Freq	320
Echo Train Length	32	Freq DIR	A/P
Receiver Bandwidth	50.00	Fat Shift DIR	Normal (A)
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	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
Slice Order	Interleaved	TR Max	10000.0
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	2		

Ax T2 PROPELLER

Ax T2 PROPELLER

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Cor T2 PROPELLER	PATIENT POSITION		IMAGING PARAMETERS		Cor T2 PROPELLER
	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	Cor T2 PROPELLER	FOV	24.0	
	SCAN TIMING		Slice Thickness	4.0	
	Flip Angle	111	Slice Spacing	1.5	
	Number of Echoes	1	ACQ TIMING		
	TR	7025.0	Freq	256	
	Echo Train Length	32	Freq DIR	S/I	
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (I)	
	IMAGE ENHANCE		NEX	2.00	
	Filter Choice	None	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	

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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	COR T1 FSE Optimized	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	320
TR	750.0	Phase	192
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	
Slice Order	Interleaved	User CV16	1.00
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	750.0
# of Repetitions ACTIVE	0	TR Max	950.0
SAT		MULTI-PHASE	
SAT Location	I	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

COR T1 FSE Optimized

COR T1 FSE Optimized

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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		
Series Description	--Contrast--	SCAN RANGE	
SCAN TIMING		FOV	30.0
TE	80.0	Slice Thickness	10.0
Number of Echoes	1	Slice Spacing	5.0
TR	1200.0	ACQ TIMING	
Receiver Bandwidth	83.33	Freq	256
IMAGE ENHANCE		Phase	128
Filter Choice	None	Freq DIR	Unswap
GATING/TRIGGER		# of Acq. Before Pause	0
Auto Trigger Type	Off	Phase FOV	1.00
FMRI		Auto Shim	Auto
PSD Trigger	Internal	Phase Correction	No
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV1	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

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	BRAVO
Coil Configuration	48Ch Head Coil	Imaging Options	EDR, Fast, ZIP512, ZIP2, ARC, IrP
Plane	AXIAL	SCAN RANGE	
Series Description	3D Ax T1 post BRAVO	FOV	25.6
SCAN TIMING		Slice Thickness	1.0
Flip Angle	12	Location per Slab	120
Number of Echoes	1	Overlap Locations	0
TI	450	ACQ TIMING	
Receiver Bandwidth	31.25	Freq	256
IMAGE ENHANCE		Phase	256
Filter Choice	G	Freq DIR	A/P
GATING/TRIGGER		NEX	1.00
Auto Trigger Type	Off	Phase FOV	0.80
MULTI-PHASE		Auto Shim	Auto
Seperate Series	0	Phase Correction	No
Trigger Delay without AV	0	FMRI	
Mask Phase	0	PSD Trigger	Internal
Mask Pause	0	View Order	Bottom/Up
DIFFUSION		# of Repetitions REST	0
Recon All Images	On	# of Repetitions ACTIVE	0
CONTRAST		SAT	
Contrast Yes/No	No	Tag Type	None
		TRICKS	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	2

3D Ax T1 post BRAVO

3D Ax T1 post BRAVO

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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	256
TR	750.0	Phase	192
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	Yes

+C Ax T1 FSE

+C Ax T1 FSE

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--OPTIONAL--	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	--OPTIONAL--	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	

--OPTIONAL--

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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	EPI, Asset
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax SWI	FOV	24.0
SCAN TIMING		Slice Thickness	2.0
Flip Angle	90	Slice Spacing	0.0
TE	30.0	ACQ TIMING	
Number of Echoes	1	Freq	192
TR	5000.0	Phase	416
Number of Shots	2	Freq DIR	R/L
IMAGE ENHANCE		NEX	4.00
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	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	Off		

Ax SWI

Ax SWI